

Do you know your  
resilient floor type?

Yes

No

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navigate, simply select icons  
instead of scrolling page-to-page.

Click anywhere to get started!

close

**Do you know your  
resilient floor type?**

**Yes**

**No**

**Do you know your  
resilient floor type?**

**Yes**

**No**

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# FLOOR CARE GUIDE

## Resilient Flooring

**Tip**- When trying to identify what type of flooring is installed, color can often be a misleading aspect. While color is important, the pattern of the tile or sheet product can regularly tell you more about what is on the floor. Keep this in mind when referring to pictures.



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## FLOOR CARE GUIDE

**Stone**

**Talk to our  
experts**

**800-328-3908**

**Send a Message**

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# FLOOR CARE GUIDE



**Tile**

**Plank**

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# FLOOR CARE GUIDE



## Resilient Floors

### Tile

9"x 9"

12"x 12"

16"x 16"

18"x 18"

24"x 24"

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**3M**

## FLOOR CARE GUIDE



Resilient Floors

Tile / 9"x 9"

# VAT-Vinyl Asbestos Tile

**EXLAIMER-** 3M products are not intended for use on asbestos containing flooring materials. Ensure that the flooring you are working on does not contain asbestos.

VAT or Vinyl Asbestos Tile is very similar to VCT (Vinyl Composition Tile) in composition but with the addition of asbestos fiber as a filler. If you suspect that you are working with an asbestos containing floor go to [www.EPA.gov](http://www.EPA.gov) for more information.

VAT will usually have 2-3 colors with one base color that is a majority of the tile and 1-2 colors with linear patterns that go in the same direction.

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# FLOOR CARE GUIDE



Resilient Floors

Tile / 9"x 9"

## VAT-Vinyl Asbestos Tile





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# FLOOR CARE GUIDE



**Resilient Floors**

**Tile / 12"x 12"**

**Textured**

**Not Textured**

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Textured

# LVT-Luxury Vinyl Tile

LVT is composed of several layers; starting top down with an abradable factory coating, a clear urethane or UV cured acrylic wear layer, a printed film layer, a filler layer, and a backing. Often has a textured wear layer to increase aesthetics. It is becoming increasingly popular as a no coat solution in the commercial flooring industry. It will however, depending on the amount of traffic, benefit from a polymer coating which will greatly extend its life.

Tiles will most often look like stone, textile, or solid colors.

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# FLOOR CARE GUIDE



Resilient Floors

Tile / 12"x 12" / Textured

## LVT-Luxury Vinyl Tile





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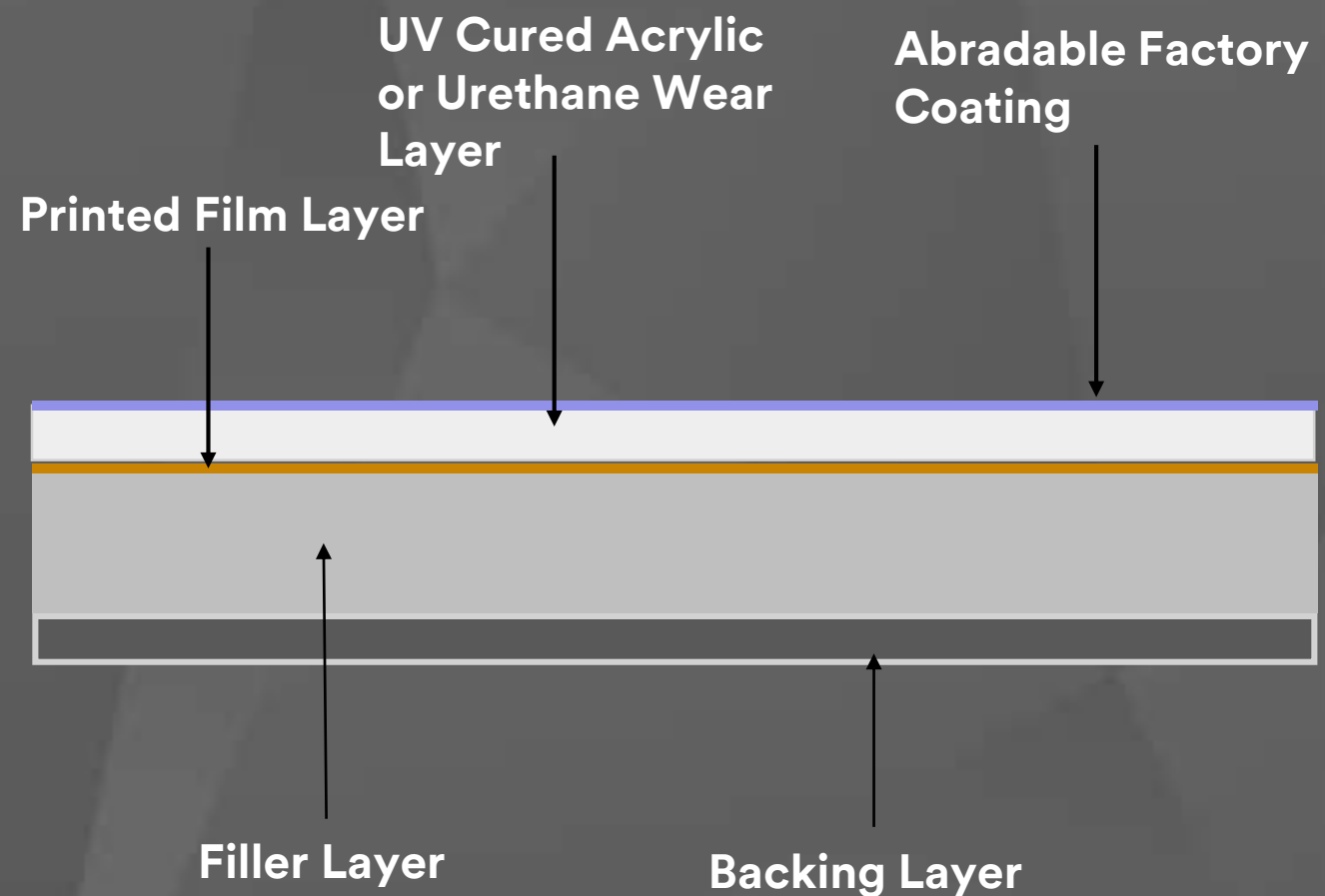
# FLOOR CARE GUIDE



Resilient Floors

## LVT-Luxury Vinyl Tile

### Luxury Vinyl Construction



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[Floor Repair Troubleshooter](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

3M Floor  
Pad  
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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# LVT-Luxury Vinyl Tile

Surface Damage

Adhesion Issues

Subfloor Telegraphing

Shrinking, Curling, Cupping

Common Coating Problems

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Surface Damage

The clear wear layer on LVT/LVP products hold up differently depending on the amount of traffic in a facility. Areas of high traffic often see a development of traffic lane scratching that can quickly become noticeable as the center lane wear and sections closer to the walls do not. For scratching there are a few options to try.

[Troubleshooting](#)



Resilient Floors

## LVT/LVP- Surface Damage

Minor scratches- appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.
6. If unsuccessful, a blue or SPP pad can be used to even out the scratching prior to coating.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

Un-repairable  
Scratching-Contact  
**Flooring Manufacturer**  
**For Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Adhesion Issues

Coating not adhering to surface- LVT/LVP are often shipped with a light factory coating to prevent them from sticking in transit. This coating must be physically abraded from the tile prior to coating to avoid adhesion issues. Scrub with a SPP or Blue Cleaner pad, rinse well and coat.

Adhesive releasing from floor- Depending on the adhesive used, repeated stripping or moisture from the slab can cause the adhesive to release from the floor.



**Adhesion Issues-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



### LVT/LVP- Sub-floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the LVT/LVP; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the LVT/LVP will conform to it and will be visible on the surface.

Telegraphing will be more noticeable on larger tiles and longer planks as well as LVT/LVP that are shiny. LVT/LVP that is textured or dull will have a less chance of showing telegraphing.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Shrinking, Curling, Cupping

Changes in humidity and heat from direct sunlight can cause many issues depending on how the LVT/LVP was manufactured. Cupping, edge curling, and adhesive failing can occur while the most common issue is shrinking of the tile itself.

LVT/LVP is manufactured under heated rollers and use pressure to create a continuous sheet. Each layer is laminated together, which can sometimes cause some internal stress. Because of the internal stresses and “memory” of the LVT/LVP it can cause some shrinkage as the product ages.

**Shrinking, Curling, Cupping-Contact Flooring Manufacturer For Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes

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# FLOOR CARE GUIDE



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed(greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.





Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |





Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



Resilient Floors

Tile / 12"x 12" / Textured

## LVT-Luxury Vinyl Tile



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## FLOOR CARE GUIDE



### Resilient Floors

Plank / Textured and Non-Textured

## LVP-Luxury Vinyl Plank

LVP is composed of several layers; starting top down with an abradable factory coating, a clear urethane or UV cured acrylic wear layer, a printed film layer, a filler layer, and a backing. Often has a textured wear layer to increase aesthetics. It is becoming increasingly popular as a no coat solution in the commercial flooring industry. It will however, depending on the amount of traffic, benefit from a polymer coating which will greatly extend its life.

Plank sizes tend be 4.5" to 8" wide and anywhere from 6" to 48" long.

Planks tend to be printed with wood, linear patterns, or solid colors, apart from 12"x 24" sizes that tend to look like stone.

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# FLOOR CARE GUIDE



**Resilient Floors**

Plank / Textured and Non-Textured

## LVP-Luxury Vinyl Plank





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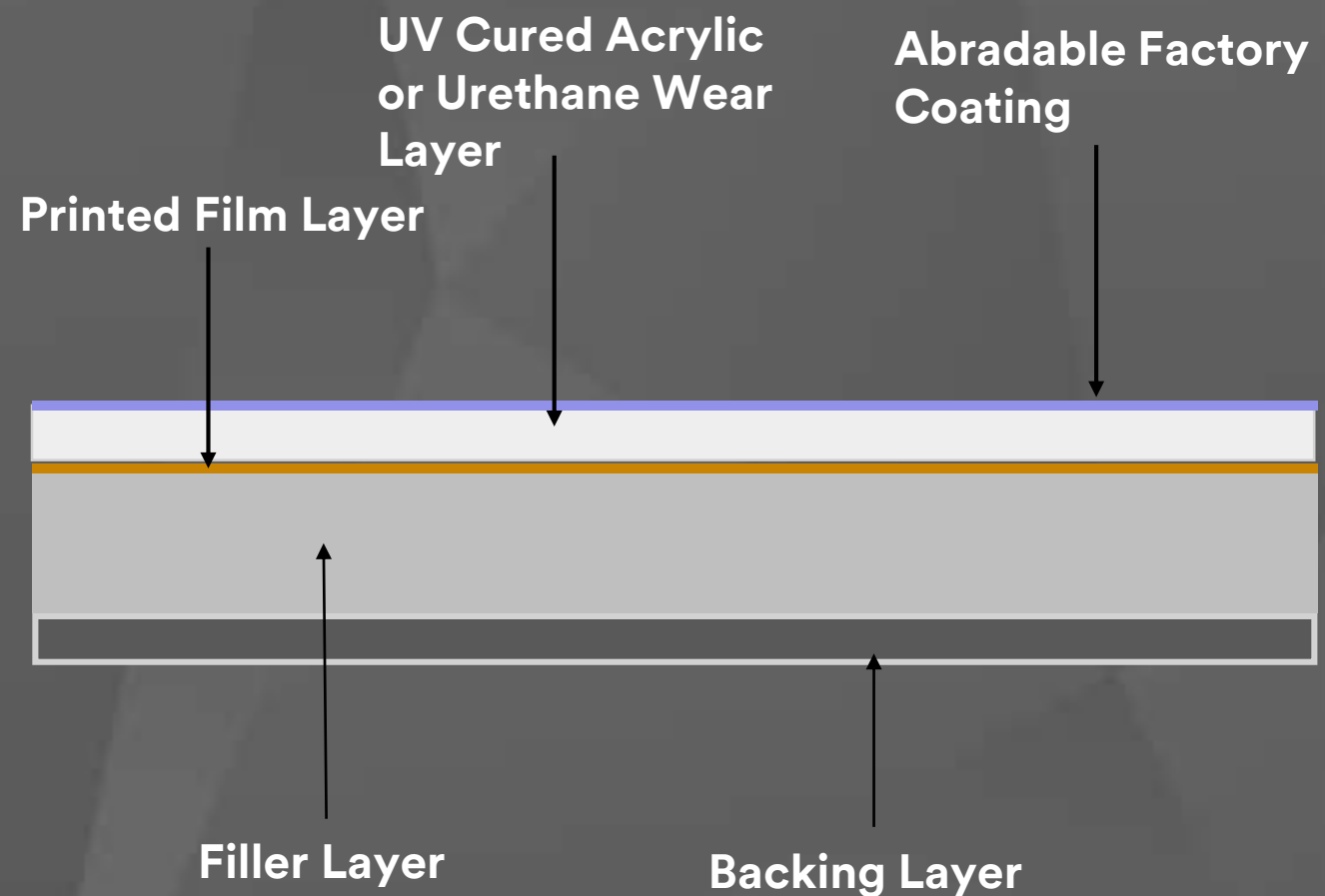
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Resilient Floors

## LVP-Luxury Vinyl Plank

### Luxury Vinyl Construction



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# FLOOR CARE GUIDE



**Resilient Floors**

Plank / Textured and Non-Textured

## LVP-Luxury Vinyl Plank



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# LVT/LVP-Luxury Vinyl Tile/Plank

Surface Damage

Adhesion Issues

Subfloor Telegraphing

Shrinking, Curling, Cupping

Common Coating Problems

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Surface Damage

The clear wear layer on LVT/LVP products hold up differently depending on the amount of traffic in a facility. Areas of high traffic often see a development of traffic lane scratching that can quickly become noticeable as the center lane wear and sections closer to the walls do not. For scratching there are a few options to try.

[Troubleshooting](#)

**Resilient Floors**

## LVT/LVP- Surface Damage

Minor scratches- appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.
6. If unsuccessful, a blue or SPP pad can be used to even out the scratching prior to coating.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

Un-repairable  
Scratching-Contact  
**Flooring Manufacturer**  
**For Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Adhesion Issues

Coating not adhering to surface- LVT/LVP are often shipped with a light factory coating to prevent them from sticking in transit. This coating must be physically abraded from the tile prior to coating to avoid adhesion issues. Scrub with a SPP or Blue Cleaner pad, rinse well and coat.

Adhesive releasing from floor- Depending on the adhesive used, repeated stripping or moisture from the slab can cause the adhesive to release from the floor.



**Adhesion Issues-  
Contact Flooring  
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## **FLOOR CARE GUIDE**



**Resilient Floors**

### **LVT/LVP- Sub-floor Telegraphing**

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the LVT/LVP; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the LVT/LVP will conform to it and will be visible on the surface.

Telegraphing will be more noticeable on larger tiles and longer planks as well as LVT/LVP that are shiny. LVT/LVP that is textured or dull will have a less chance of showing telegraphing.

**Telegraphing-  
Contact Flooring  
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Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

### LVT/LVP- Shrinking, Curling, Cupping

Changes in humidity and heat from direct sunlight can cause many issues depending on how the LVT/LVP was manufactured. Cupping, edge curling, and adhesive failing can occur while the most common issue is shrinking of the tile itself.

LVT/LVP is manufactured under heated rollers and use pressure to create a continuous sheet. Each layer is laminated together, which can sometimes cause some internal stress. Because of the internal stresses and “memory” of the LVT/LVP it can cause some shrinkage as the product ages.

**Shrinking, Curling, Cupping-Contact Flooring Manufacturer For Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

| Potential Causes   | Possible Solutions   |
|--|--|
| <ul style="list-style-type: none"><li>• Finish applied too thick.</li></ul>  | <ul style="list-style-type: none"><li>• Wring mop head more to apply light-medium coats. Switch to flat mop.</li></ul>             |
| <ul style="list-style-type: none"><li>• Not enough top coats applied.</li></ul>  | <ul style="list-style-type: none"><li>• Scrub, rinse, recoat.</li></ul>  |
| <ul style="list-style-type: none"><li>• Additional coats applied too soon.</li></ul>   | <ul style="list-style-type: none"><li>• Wait for each coat to dry completely.</li></ul>  |
| <ul style="list-style-type: none"><li>• Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).</li></ul> | <ul style="list-style-type: none"><li>• Floor needs to be completely cleaned (stripped) and rinsed.</li></ul>                      |
| <ul style="list-style-type: none"><li>• Dirty mop and/or bucket.</li></ul>   | <ul style="list-style-type: none"><li>• Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.</li></ul> |
| <ul style="list-style-type: none"><li>• Ammonia or bleach used in damp mopping.</li></ul>  | <ul style="list-style-type: none"><li>• Use only cleaners that are designed for the floor.</li></ul>                               |
| <ul style="list-style-type: none"><li>• Fan used to dry finish.</li></ul>  | <ul style="list-style-type: none"><li>• Make sure fan is not blowing directly at floor finish.</li></ul>                           |
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity.</li></ul>  | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50%RH. Make sure HVAC is on. Use fans carefully.</li></ul>             |



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied



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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

LVT

VCT

Linoleum

Fritztile

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

LVT

VCT

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Fritztile

LVT (Luxury Vinyl Tile) is composed of several layers; starting top down with an abradable factory coating, a clear urethane or UV cured acrylic wear layer, a printed film layer, a filler layer, and a backing. Often has a textured wear layer to increase aesthetics. It is becoming increasingly popular as a no coat solution in the commercial flooring industry. It will however, depending on the amount of traffic, benefit from a polymer coating which will greatly extend its life.

The printed layer can be almost any pattern available. Tiles will most often look like stone, textile, or solid colors.

[Pictures](#)

[Maintenance & Troubleshooting](#)

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

LVT





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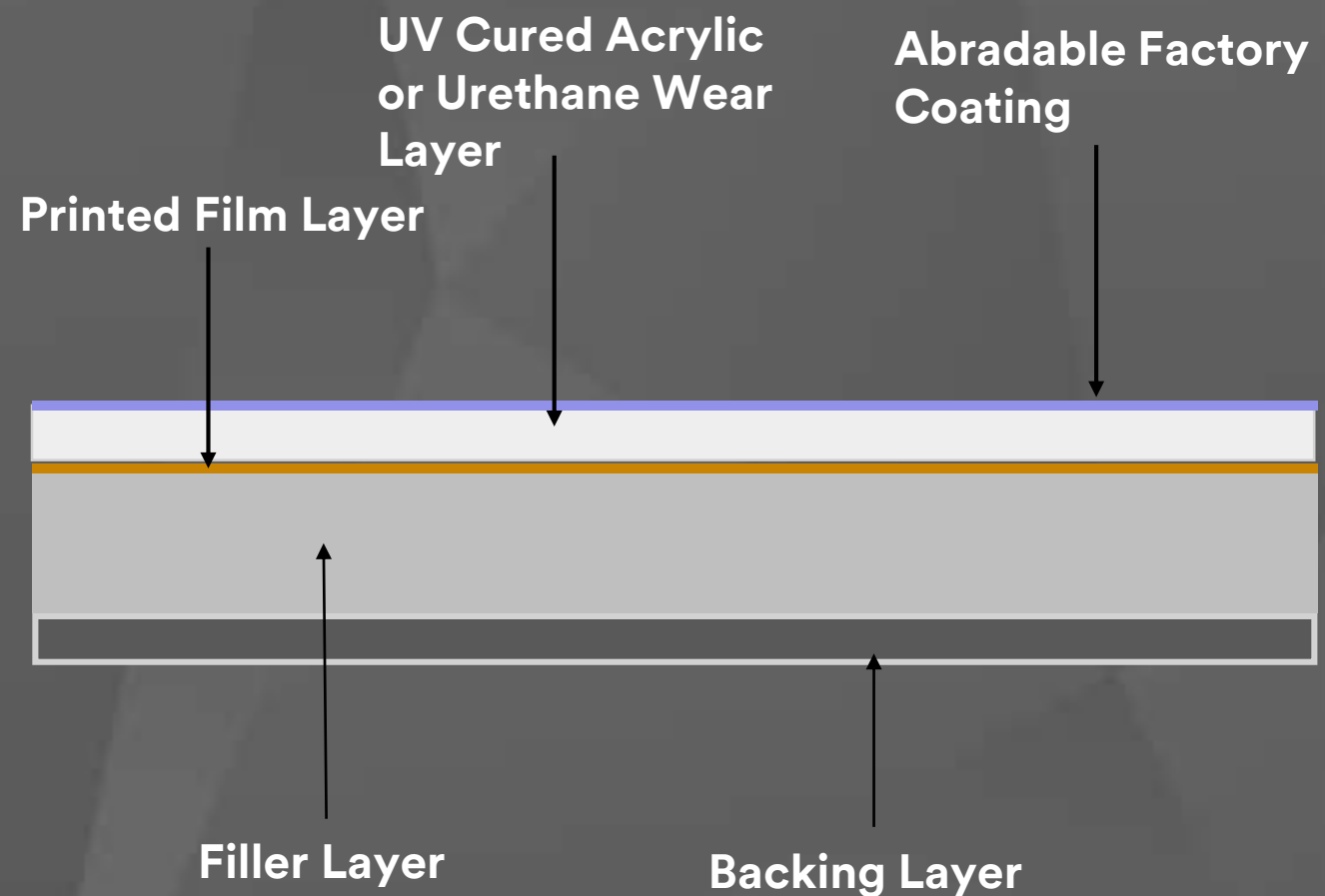
# FLOOR CARE GUIDE



Resilient Floors

## LVT-Luxury Vinyl Tile

### Luxury Vinyl Construction



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# LVT/LVP-Luxury Vinyl Tile/Plank

Surface Damage

Adhesion Issues

Subfloor Telegraphing

Shrinking, Curling, Cupping

Common Coating Problems



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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Surface Damage

The clear wear layer on LVT/LVP products hold up differently depending on the amount of traffic in a facility. Areas of high traffic often see a development of traffic lane scratching that can quickly become noticeable as the center lane wear and sections closer to the walls do not. For scratching there are a few options to try.

[Troubleshooting](#)

**Resilient Floors**

## LVT/LVP- Surface Damage

Minor scratches- appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.
6. If unsuccessful, a blue or SPP pad can be used to even out the scratching prior to coating.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

Un-repairable  
Scratching-Contact  
**Flooring Manufacturer**  
**For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Adhesion Issues

Coating not adhering to surface- LVT/LVP are often shipped with a light factory coating to prevent them from sticking in transit. This coating must be physically abraded from the tile prior to coating to avoid adhesion issues. Scrub with a SPP or Blue Cleaner pad, rinse well and coat.

Adhesive releasing from floor- Depending on the adhesive used, repeated stripping or moisture from the slab can cause the adhesive to release from the floor.



**Adhesion Issues-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

### LVT/LVP- Sub-floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the LVT/LVP; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the LVT/LVP will conform to it and will be visible on the surface.

Telegraphing will be more noticeable on larger tiles and longer planks as well as LVT/LVP that are shiny. LVT/LVP that is textured or dull will have a less chance of showing telegraphing.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Shrinking, Curling, Cupping

Changes in humidity and heat from direct sunlight can cause many issues depending on how the LVT/LVP was manufactured. Cupping, edge curling, and adhesive failing can occur while the most common issue is shrinking of the tile itself.

LVT/LVP is manufactured under heated rollers and use pressure to create a continuous sheet. Each layer is laminated together, which can sometimes cause some internal stress. Because of the internal stresses and “memory” of the LVT/LVP it can cause some shrinkage as the product ages.

**Shrinking, Curling, Cupping-Contact Flooring Manufacturer For Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes

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# FLOOR CARE GUIDE



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.

- Damp mopped with dirty water and/or mops.

- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.

- Build up of disinfectant cleaner.

- Extremes in temperature and humidity.

- Additional coats applied too soon.

- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.

- Use only clean mops and buckets. Change water frequently.

- Use only cleaners that are designed for the floor according to manufacturing specifications.

- Periodically clean floor with neutral cleaner to help remove any buildup.

- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.

- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.

- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |





**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

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LVT



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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

LVT

VCT

Linoleum

Fritztile

Linoleum is a natural flooring product that is made up of wood flour, pine resins, talc, bound with linseed oil and pressed onto a jute (burlap) backing.

Because of these natural products, linoleum is sensitive to moisture, chemicals, and abrasion.

Linoleum can range from 2-6 different colors on average and will often be bright and contrasting. The pattern can be described as flowing turbulent water, with the colors mixing into and around each other. Often the jute backing creates a visible pattern on the top surface, which looks like many small dimples in a grid pattern.

[Pictures](#)

[Maintenance & Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 12"x 12" / Not Textured

**Linoleum**



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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum

**Linoleum make-up:** Linseed oil, cork/wood flour, pine resin, and mineral fillers pressed onto a jute (burlap/canvas) backing.

### Linoleum Sensitivities

**Chemical:** Because of the natural products in linoleum, caution must be taken with high pH chemicals. High pH cleaning chemicals and strippers (10.5 and above) should never be used, they cause the linseed oil binder to break down. Mildly alkaline cleaners may be used for periodic cleaning. Contact flooring manufacturer for recommended cleaners.

**Abrasion:** Linoleum is a relatively soft flooring substrate due to the cork/wood flour and therefor is vulnerable to scratching. A lower abrasive pad, such as a blue or brown pad should be used if chemically stripping.

**Moisture:** Due to the jute backing, linoleum is sensitive to moisture. If moisture penetrates the surface, it can cause the jute backing to release from the adhesive. Constant moisture can cause both adhesion problems as well as mold.

3M™ products to not use: #6 Speed Stripper, #22 Floor Stripper LO, Troubleshooter™ stripper, 3M™ Floor stripper, 3M™ High Productivity Pad 7300.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 12"x 12" / Not Textured

Linoleum



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum

Subfloor Telegraphing

Surface Scratching

Bubbles or Warping

Chemical Damage

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## FLOOR CARE GUIDE



Resilient Floors

# Linoleum- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the linoleum; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the linoleum will conform to it and will be visible on the surface. This is especially true for linoleum because it is quite thin and most often sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE

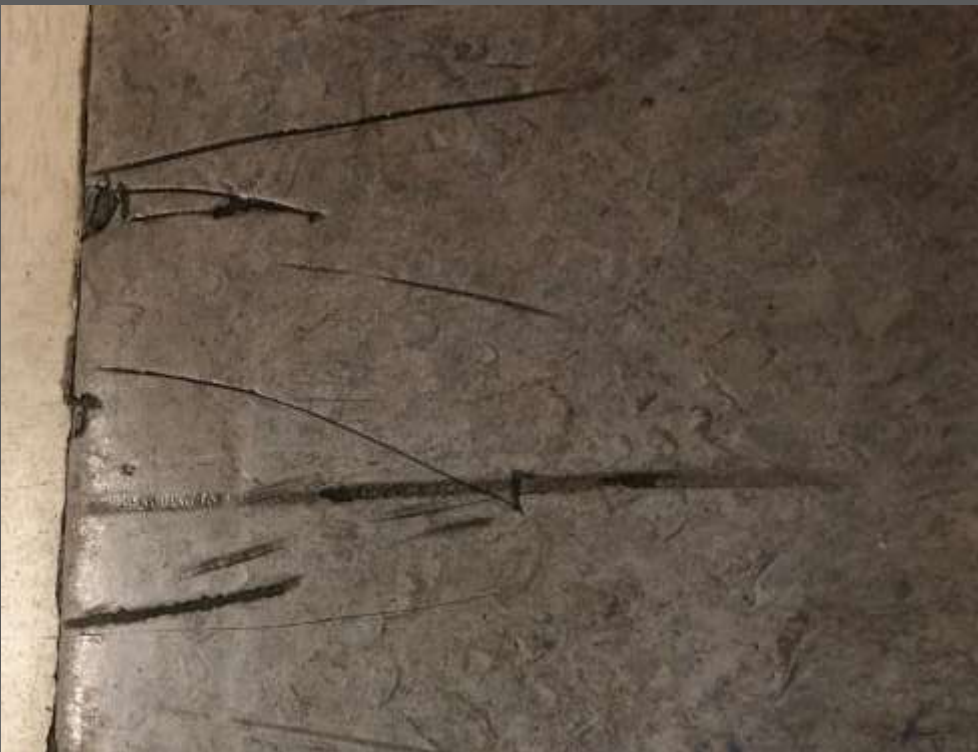


Resilient Floors

## Linoleum- Surface Scratching

Because the main filler in linoleum is either wood pulp or a combination of wood pulp and cork, it is a relatively soft flooring substrate. Extra caution is necessary after the floor has been exposed to water because that can soften it even further.

Large objects or furniture can easily damage the floor if dragged. Floor pads that are too aggressive (High Pro Pad 7300, Black Stripping Pad 7200) if used, can cause widespread small scratching.

[Troubleshooting](#)



## Linoleum- Surface Scratching

Minor scratches-appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

**Major surface scratches or not repairable- Contact Flooring Manufacturer For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Bubbles or Warping

**Bubbling-** Bubbling in linoleum can occur from several different sources. If excessive moisture is present underneath the linoleum, most often migrating through the slab, it can cause adhesion issues. The moisture can cause the jute backing to separate from the linoleum itself or the backing can separate from the adhesive. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor, mainly when in sheet form. Surface bubbling can also form in extreme cases of chemical damage. If high pH chemicals are used, especially over a longer period of time, it will cause the linoleum to break down and possibly create bubbles.

**Warping-** Warping will generally occur on the edge of tiles or at the seams of sheet products. This is usually due to moisture entering between seams and causing the linoleum to swell and warp.

**Bubbles/Warping-Contact  
Flooring Manufacturer For  
Guidance.**



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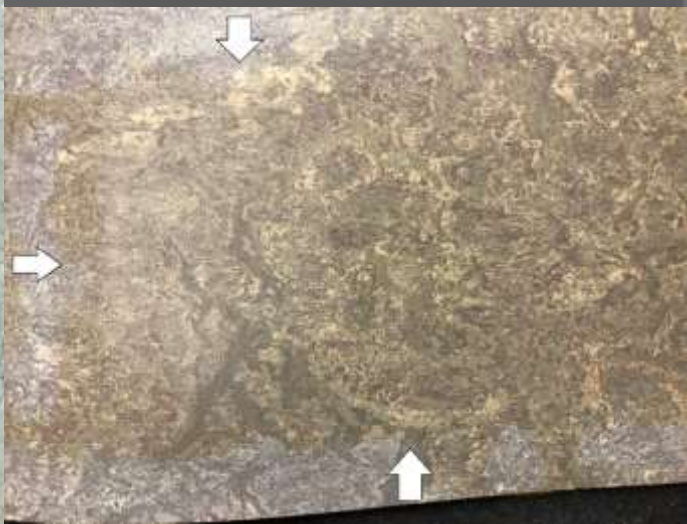
# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Chemical Damage

**Chemical Damage**- High pH chemicals (degreasers and strippers) will breakdown the linseed oil binder. This can occur after just one exposure and will become more likely after repeated exposure. Chemical damage can be observed in several different ways but most commonly as: color change/color fade, brittleness, surface cracking, softening, or bubbling.



**Chemical Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied



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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

LVT

VCT

Linoleum

Fritztile

VCT or Vinyl Composition Tiles are composed of a binder, fillers, and dyes. The binder is generally Poly Vinyl Chloride (PVC) and the filler is a large amount of crushed limestone. Tiles are available in almost any color imaginable. The colors on the surface must be similar throughout the thickness of the tile while the pattern can vary slightly.

Color can usually include 2-4 similar shades or accent colors to create a well-blended pattern. VCT can be described as an overlapping/pressed scale-like pattern. Each angular piece has an individual color and overlaps other pieces. Another common pattern is 1"-2"x 0.25" slivers of similar color shades intermixed. There are also solid black and white VCT tiles. They are distinguished by their uniform color and most often have shimmering specks from the limestone in them. A majority of VCT will also have the shimmering specks visible on an uncoated floor.

[Pictures](#)

[Maintenance & Troubleshooting](#)

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# FLOOR CARE GUIDE



**Resilient Floors**

Tile / 12"x 12" / Not Textured

**VCT**



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# FLOOR CARE GUIDE



Resilient Floors

## Vinyl Composition Tile (VCT)

**VET-** Vinyl Enhanced Tile is almost indistinguishable from VCT visually but has a higher vinyl binder content. VET is a sub-set of VCT and can be treated the same way.

**SVT-** Solid Vinyl Tile is almost indistinguishable from VCT visually and has a higher vinyl binder content than VCT and VET. SVT is a sub-set of VCT and can be treated the same way.

Because VCT tiles are made up of approx. 70% limestone, they are susceptible to cracking if stressed past the point of their resiliency.

**Floor Prep Tips-** Bare VCT tiles can be prepped before coating for a better looking floor, especially old or worn tiles. Scrub worn floor with SPP for a fresh coating surface or with the Purple Diamond Pad for a deep clean.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

VCT



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# Common VCT Floor Problems

Adhesive Bleeding Around Tiles

Alkaline Salts Blistering

Cracking on the Edges

Cracking over Concrete Expansion Joints

Dewetting of Finish

Discoloration/Stains

Sub-Floor Telegraphing/Surface Indentations

Common Coating Problems

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# FLOOR CARE GUIDE

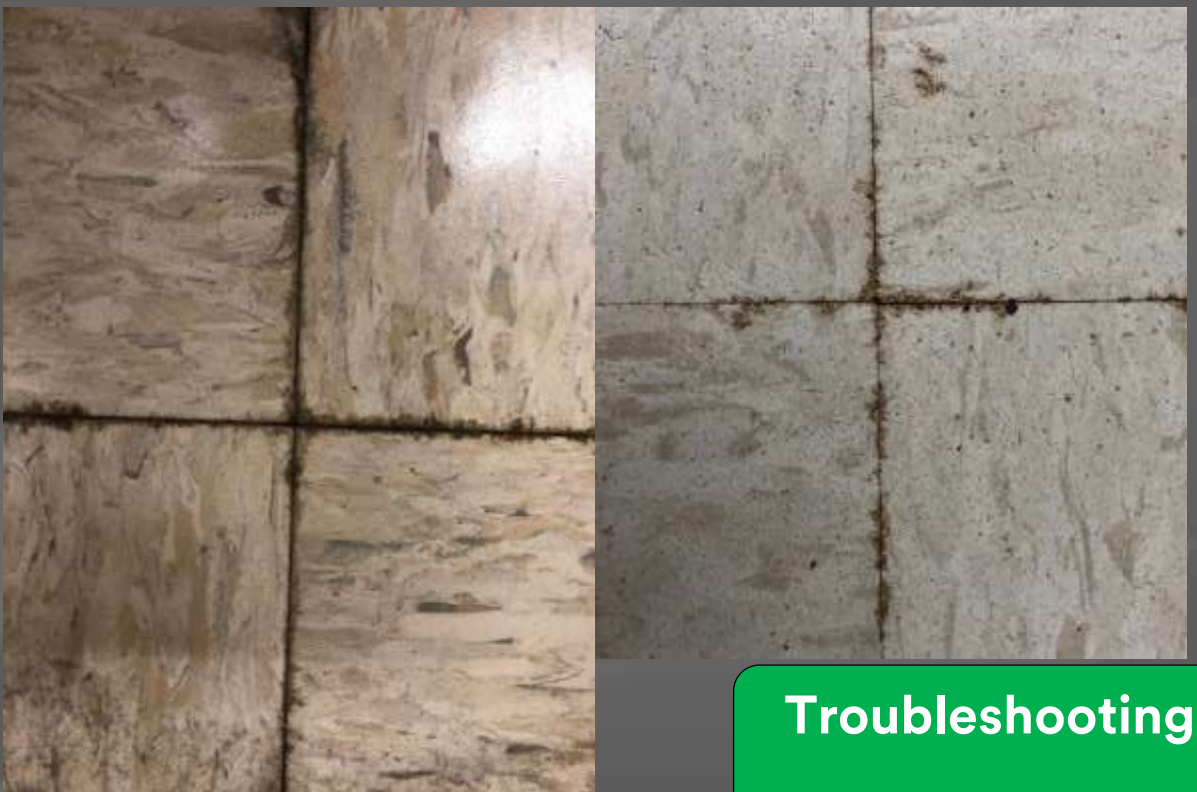


Resilient Floors

## VCT- Adhesion Bleeding Around Tiles

Adhesive bleeding between VCT tiles is a result of the underlying adhesive exuding between the tiles and onto the surface. This can be caused by using too much adhesive or the improper kind of adhesive. It can also be caused by moisture in the concrete softening the adhesive, allowing it to migrate up between tiles.

On isolated instances of adhesive bleeding, mineral spirits can be used to clean a bare VCT tile.

[Troubleshooting](#)

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## FLOOR CARE GUIDE



Resilient Floors

# VCT- Adhesion Bleeding Around Tiles

Troubleshooting for small areas:

- 1) Chemically strip any finish over a test area. Rinse well.
- 2) Attempt to clean the adhesive off the bare tile using mineral spirits.
- 3) If successful, clean the floor well and recoat with finish.

Or

- 3) If not successful or widespread areas, Contact flooring manufacturer for guidance.

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# FLOOR CARE GUIDE



Resilient Floors

## VCT- Alkaline Salt Blistering

Concrete sub-floors are permeable and allow moisture to travel through the slab and release out the top. If excessive moisture is present, it will dissolve alkaline salts from the concrete slab as it travels through. The moisture is now alkaline and can even reach a pH range of 10-13. Once this moisture leaves the concrete slab, it is trapped between the slab and the VCT flooring. Extended exposure to the highly alkaline moisture can dissolve the adhesive as well as damage the tile flooring itself as shown below.



**Blistering-Contact  
Flooring Manufacturer  
For Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## VCT- Cracking on the Edges

VCT tiles can crack along the entire edge or at the corners and can range from just one side to all. This cracking pattern is a result of the edges/sides of the VCT lifting off of the adhesive and drying. Pedestrian traffic over these affected tiles will often force them past the VCT resiliency point and result in damage. There are a few possibilities that cause this cracking pattern:

- Moisture beneath the tile or excessive moisture in the adhesive
- Not using a weighted roller on the tiles at installation.
- Left over adhesive from previous flooring can cause the new adhesive not to bond to the floor.



**Cracking-Contact  
Flooring Manufacturer  
For Guidance.**



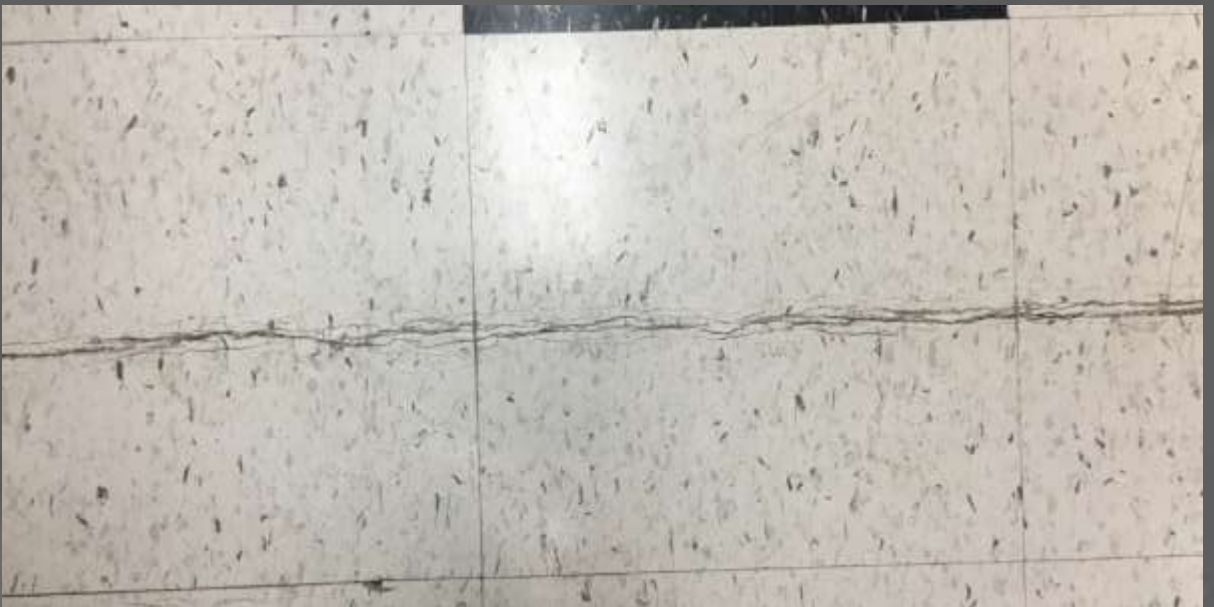
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# FLOOR CARE GUIDE



## VCT- Cracking over Concrete Expansion Joints

Concrete slabs are poured in sections when installed. Between these sections are concrete expansion joints that are used in order to relieve stress and prevent cracking in the concrete slab as it expands and contracts from temperature changes. VCT that is installed and adhered above these expansion joints are also subject to the movement of the expansion joints. This often ends with linear cracks in the VCT along the expansion joints where it was stressed past its resiliency.



**Cracking-Contact  
Flooring Manufacturer  
For Guidance.**



Resilient Floors

## VCT- Dewetting of Finish

Dewetting is the process of a liquid interacting poorly with another solid surface or liquid. Usually a liquid will make a thin, even layer when coated on a surface. If there is a poor interaction between the liquid layer and the surface, it can cause the liquid to not evenly spread and bead into itself. When it comes to floor finish, this can be caused by a few things:

- Floor tiles are shipped from the manufacturer with a thin coating applied to each tile to prevent them from sticking to each other. This thin layer often also prevents floor finish from adhering as well. Large scale Dewetting is often caused by this.
- Small scale dewetting is often caused by contaminants on the tile surface such as oil, strippers, or degreasers.



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## FLOOR CARE GUIDE



Resilient Floors

# VCT- Dewetting of Finish

Remediation:

- 1) Fully chemically strip the affected area, and rinse appropriately
- 2) Scrub entire floor with SPP or Blue 5300 pad
- 3) Rinse Floor and let sufficiently dry
- 4) Re-apply floor finish to the recommended coats



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# FLOOR CARE GUIDE



Resilient Floors

## VCT- Discoloration/Surface Stains

Discoloration or stains can occur from many possible problems. Incorrect adhesive, chemical staining, and color change throughout the tile are all common encounters. The staining can be in the finish, the tile, or both.

[Troubleshooting](#)

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## FLOOR CARE GUIDE



# VCT- Discoloration/Surface Stains

### Steps:

- 1) Chemically strip stained section and rinse floor
- 2) Inspect tiles to see if the stain is present or was removed with coating
- 3) If removed, recoat
- 4) If not removed, scrub tile with abrasive scrubbing pad to try and remove staining
- 5) If removed, recoat
- 6) If stain is still present, contact your flooring manufacturer for guidance.



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# FLOOR CARE GUIDE



Resilient Floors

## VCT- Sub-Floor Telegraphing/Surface Indentations

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the VCT; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the VCT will conform to it and will be visible on the surface.

Surface Indentations occur when an object with too much force compresses a tile more than it can rebound. This is common on heavy furniture or hospital beds with small feet.



**Telegraphing-Contact  
Flooring Manufacturer  
For Guidance.**

**Surface indentation- Contact  
Flooring Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied



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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

LVT

VCT

Linoleum

Fritztile

Fritztile is a specialty flooring that is made up of a resin matrix mixed with glass and aggregate chips. They look very similar to a terrazzo tile and are often confused for one another. The main difference is that Fritztile are 12"x12" tile and are laid without any grout lines, instead laid directly next to the adjacent tiles. They are factory coated with a UV cured acrylic and a sealer/finish are required to keep the warranty. Light surface abrasion is required before coating.

Because of customizable nature of all the materials used in a Fritztile, the color combinations are endless. They are often very bright or vibrant colors.

[Pictures](#)

[Maintenance & Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 12"x 12" / Not Textured

**Fritztile**



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## FLOOR CARE GUIDE



### Resilient Floors

Tile / 16"x 16" / 18"x 18"

## LVT-Luxury Vinyl Tile

LVT is composed of several layers; starting top down with an abradable factory coating, a clear urethane or UV cured acrylic wear layer, a printed film layer, a filler layer, and a backing. It often has a textured wear layer to increase aesthetics. It is becoming increasingly popular as a no coat solution in the commercial flooring industry. It will however, depending on the amount of traffic, benefit from a polymer coating which will greatly extend its life.

Tiles will most often look like stone, textile, or solid colors.

[Pictures](#)[Maintenance & Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 16"x 16" / 18"x 18"

## LVT-Luxury Vinyl Tile



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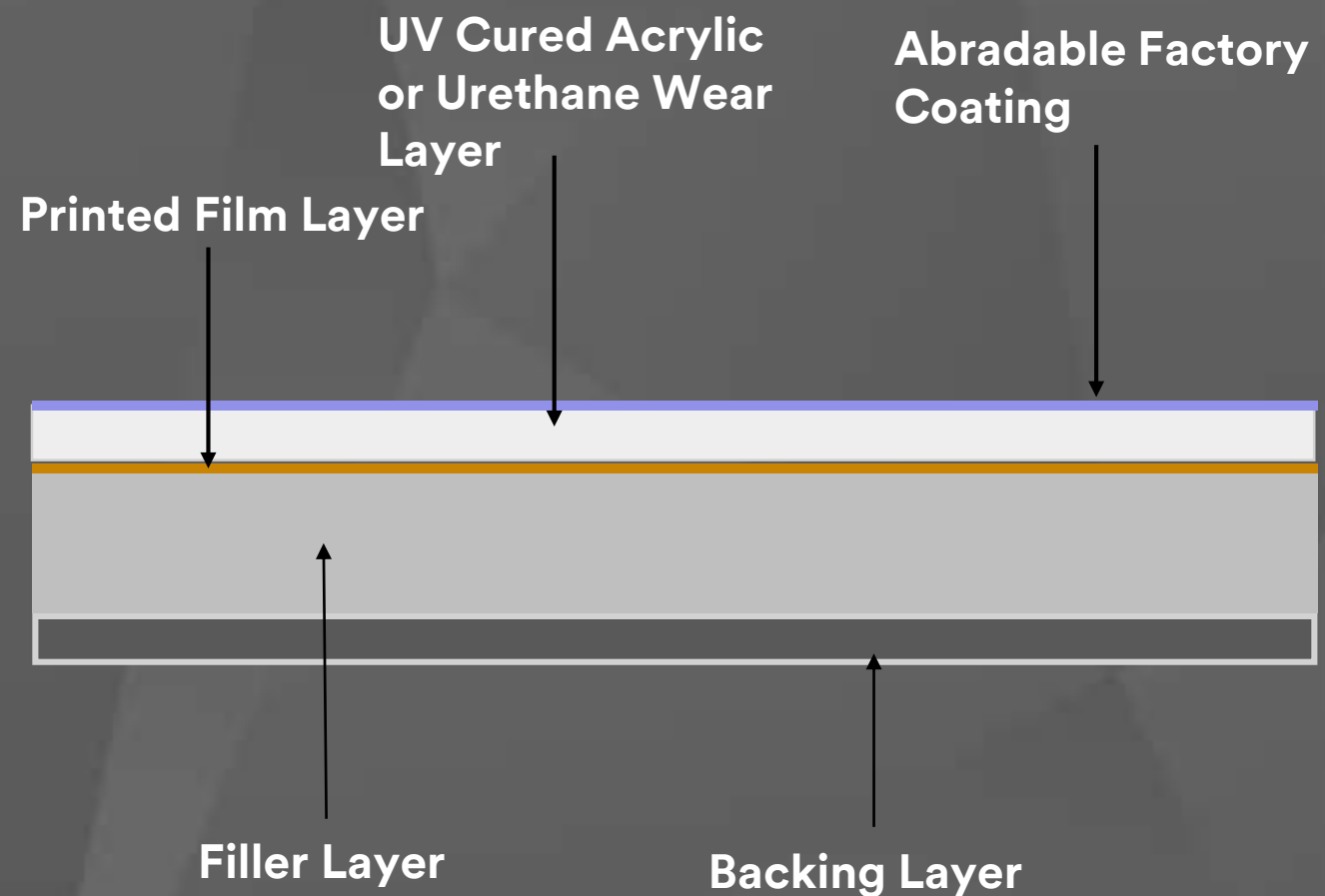
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Resilient Floors

## LVT-Luxury Vinyl Tile

### Luxury Vinyl Construction



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 16"x 16" / 18"x 18"

## LVT-Luxury Vinyl Tile



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# LVT/LVP-Luxury Vinyl Tile/Plank

Surface Damage

Adhesion Issues

Subfloor Telegraphing

Shrinking, Curling, Cupping

Common Coating Problems



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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Surface Damage

The clear wear layer on LVT/LVP products hold up differently depending on the amount of traffic in a facility. Areas of high traffic often see a development of traffic lane scratching that can quickly become noticeable as the center lane wear and sections closer to the walls do not. For scratching there are a few options to try.

[Troubleshooting](#)



## LVT/LVP- Surface Damage

Minor scratches- appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.
6. If unsuccessful, a blue or SPP pad can be used to even out the scratching prior to coating.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

Un-repairable  
Scratching-Contact  
**Flooring Manufacturer**  
**For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Adhesion Issues

Coating not adhering to surface- LVT/LVP are often shipped with a light factory coating to prevent them from sticking in transit. This coating must be physically abraded from the tile prior to coating to avoid adhesion issues. Scrub with a SPP or Blue Cleaner pad, rinse well and coat.

Adhesive releasing from floor- Depending on the adhesive used, repeated stripping or moisture from the slab can cause the adhesive to release from the floor.



**Adhesion Issues-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



### LVT/LVP- Sub-floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the LVT/LVP; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the LVT/LVP will conform to it and will be visible on the surface.

Telegraphing will be more noticeable on larger tiles and longer planks as well as LVT/LVP that are shiny. LVT/LVP that is textured or dull will have a less chance of showing telegraphing.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**



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## FLOOR CARE GUIDE



### LVT/LVP- Shrinking, Curling, Cupping

Changes in humidity and heat from direct sunlight can cause many issues depending on how the LVT/LVP was manufactured. Cupping, edge curling, and adhesive failing can occur while the most common issue is shrinking of the tile itself.

LVT/LVP is manufactured under heated rollers and use pressure to create a continuous sheet. Each layer is laminated together, which can sometimes cause some internal stress. Because of the internal stresses and “memory” of the LVT/LVP it can cause some shrinkage as the product ages.

**Shrinking, Curling, Cupping-Contact Flooring Manufacturer For Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

| Potential Causes   | Possible Solutions   |
|--|--|
| <ul style="list-style-type: none"><li>• Finish applied too thick.</li></ul>  | <ul style="list-style-type: none"><li>• Wring mop head more to apply light-medium coats. Switch to flat mop.</li></ul>             |
| <ul style="list-style-type: none"><li>• Not enough top coats applied.</li></ul>  | <ul style="list-style-type: none"><li>• Scrub, rinse, recoat.</li></ul>  |
| <ul style="list-style-type: none"><li>• Additional coats applied too soon.</li></ul>   | <ul style="list-style-type: none"><li>• Wait for each coat to dry completely.</li></ul>  |
| <ul style="list-style-type: none"><li>• Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).</li></ul> | <ul style="list-style-type: none"><li>• Floor needs to be completely cleaned (stripped) and rinsed.</li></ul>                      |
| <ul style="list-style-type: none"><li>• Dirty mop and/or bucket.</li></ul>   | <ul style="list-style-type: none"><li>• Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.</li></ul> |
| <ul style="list-style-type: none"><li>• Ammonia or bleach used in damp mopping.</li></ul>  | <ul style="list-style-type: none"><li>• Use only cleaners that are designed for the floor.</li></ul>                               |
| <ul style="list-style-type: none"><li>• Fan used to dry finish.</li></ul>  | <ul style="list-style-type: none"><li>• Make sure fan is not blowing directly at floor finish.</li></ul>                           |
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity.</li></ul>  | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50%RH. Make sure HVAC is on. Use fans carefully.</li></ul>             |



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



**Resilient Floors**

**Sheet**

**Textured**

**Not Textured**



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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Not Textured

**Layered Sheet  
Vinyl**

**Rubber**

**Homogeneous  
Sheet Vinyl**

**Linoleum**

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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Not Textured

**Layered Sheet Vinyl**

Rubber

**Homogeneous Sheet Vinyl**

Linoleum

Layered sheet vinyl is composed of several layers. The top is a clear protective wear layer made of PVC or other binders. The next layer consists of binders and fillers as well as a printable film. There can also be a third backing layer of either non-foam or foam plastic. It is very similar to LVT (Luxury Vinyl Tile) in construction and can be transported and installed with much less effort.

Layered sheet vinyl can come in many sizes but are generally rolls 6' to 12' widths. This size allows it to be installed in many areas without having any seams or at most a minimal amount. Like LVT, the pattern can be anything that is printable and is generally made to look like stone tiles, ceramic tiles, or wooden floors.

**Pictures**

**Maintenance & Troubleshooting**

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**3M**

# FLOOR CARE GUIDE



**Resilient Floors**

**Sheet / Not Textured**

**Layered Sheet  
Vinyl**



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# FLOOR CARE GUIDE

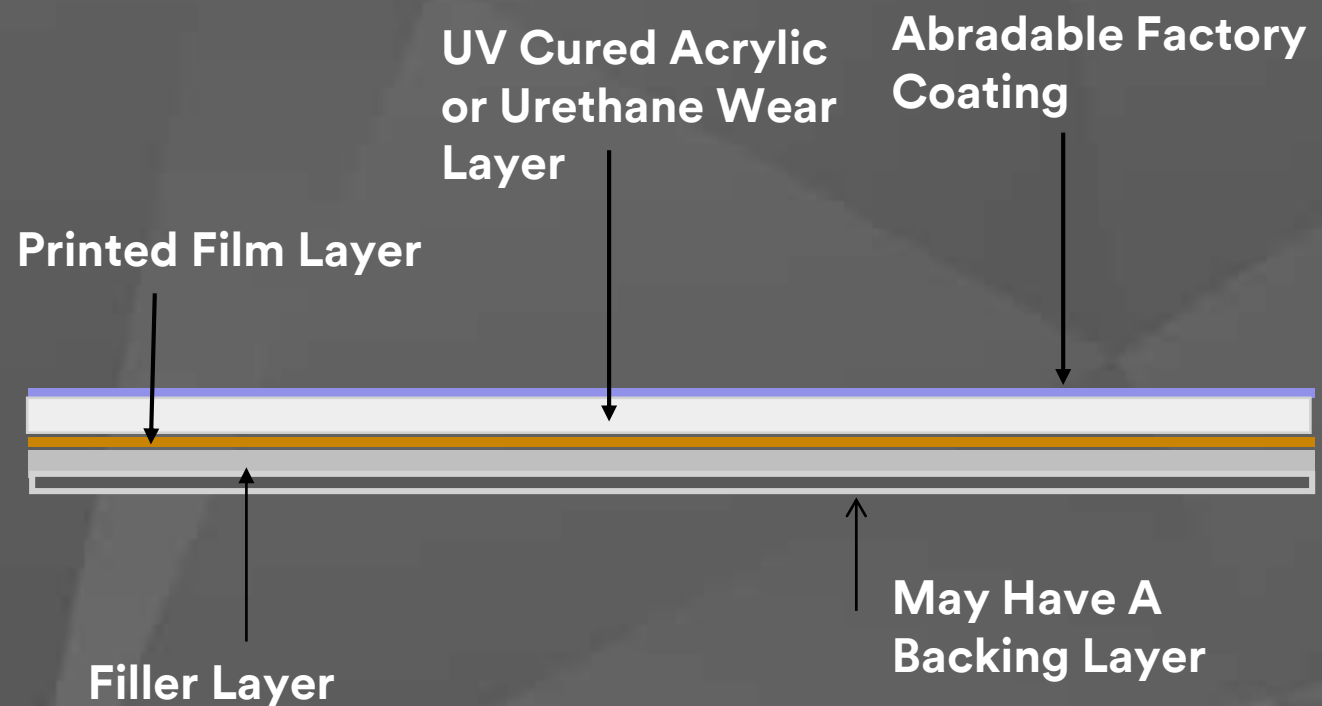


Resilient Floors

## Layered Sheet Vinyl

Layered sheet vinyl is made in a similar layered construction like LVT (Luxury Vinyl Tile) but is uncut in a 6'-12' wide roll, thinner and more flexible to facilitate shipping, and is often made without a backing. Layered sheet vinyl is often used in areas where cleanliness is important such as healthcare. The sheet product provides a minimal amount of seams for moisture and bacteria to collect.

**3M Products to not use/avoid:** aggressive stripping pads- can cause scratching of the clear wear layer.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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# FLOOR CARE GUIDE



**Resilient Floors**

Sheet / Not Textured

**Layered Sheet Vinyl**



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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**3M**

# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

Prevent

Protect

**Maintain**

Restore



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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# Layered Sheet Vinyl

Subfloor Telegraphing

Indentations

Wrinkles, Bubbles, Failing Seams

Common Coating Problems

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## FLOOR CARE GUIDE



# Layered Sheet Vinyl- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the layered sheet vinyl; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the layered sheet vinyl will conform to it and will be visible on the surface. This is especially true for layered sheet vinyl because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Layered Sheet Vinyl- Indentations

**Indentations**- Layered sheet vinyl is most often seen in the healthcare or the hospitality industry. Because of this, the floors will often be subject to heavy furniture and hospital beds that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the sheet vinyl to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Indentations-  
Contact Flooring  
Manufacturer For  
Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

### Layered Sheet Vinyl- Bubbles and Failing Seams

**Bubbling-** Bubbling in layered sheet vinyl can occur from several different sources. If excessive moisture is present underneath the layered sheet vinyl, most often migrating through the slab, it can cause adhesion issues. Improper or left over adhesive can also cause adhesive failure. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor.

**Failing Seams-** Seams are either chemically or heat welded together to increase their durability or often laid so all seams are against walls, like in hallways. Wrinkles and failing seams will occur at these natural weak points if moisture is able to penetrate into the seams. This can cause adhesion failure as dirt and moisture weaken at the seams.

**Bubbles/Failing Seams-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

| Potential Causes   | Possible Solutions   |
|--|--|
| <ul style="list-style-type: none"><li>• Finish applied too thick.</li></ul>  | <ul style="list-style-type: none"><li>• Wring mop head more to apply light-medium coats. Switch to flat mop.</li></ul>             |
| <ul style="list-style-type: none"><li>• Not enough top coats applied.</li></ul>  | <ul style="list-style-type: none"><li>• Scrub, rinse, recoat.</li></ul>  |
| <ul style="list-style-type: none"><li>• Additional coats applied too soon.</li></ul>   | <ul style="list-style-type: none"><li>• Wait for each coat to dry completely.</li></ul>  |
| <ul style="list-style-type: none"><li>• Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).</li></ul> | <ul style="list-style-type: none"><li>• Floor needs to be completely cleaned (stripped) and rinsed.</li></ul>                      |
| <ul style="list-style-type: none"><li>• Dirty mop and/or bucket.</li></ul>   | <ul style="list-style-type: none"><li>• Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.</li></ul> |
| <ul style="list-style-type: none"><li>• Ammonia or bleach used in damp mopping.</li></ul>  | <ul style="list-style-type: none"><li>• Use only cleaners that are designed for the floor.</li></ul>                               |
| <ul style="list-style-type: none"><li>• Fan used to dry finish.</li></ul>  | <ul style="list-style-type: none"><li>• Make sure fan is not blowing directly at floor finish.</li></ul>                           |
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity.</li></ul>  | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50%RH. Make sure HVAC is on. Use fans carefully.</li></ul>             |



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Not Textured

Layered Sheet  
Vinyl

Rubber

Homogeneous  
Sheet Vinyl

Linoleum

Rubber flooring is a mixture of natural or synthetic rubber, fillers, and dyes. It is a durable and flexible floor that's often uncoated for its maintenance program. Rubber is also very impact resistant which makes it a good choice for applications such as sports flooring or weight lifting areas as well as healthcare. They are most often homogeneous throughout the entire layer.

Non Textured rubber usually has between 1-4 different colors. The pattern consists of a main base color that is a majority of the area with 1-3 complementary colors in an angled or rounded speckled form. These speckles will also be randomly spaced and of similar size.

[Pictures](#)

[Maintenance & Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

Sheet / Not Textured

Rubber



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Rubber is most commonly encountered in sheet form in healthcare and sports facilities.

**Benefits-** A good product for moisture resistance, several chemical resistances, sound dampening, good traction with textured versions, and easy to stand on for large periods of time.

**Disadvantages:** Rubber is susceptible to staining from oils and grease. Color fade/loss of color can occur with repeated use of high pH cleaners and chemical strippers as well as UV damage from direct sunlight. High pH cleaners and strippers can degrade the plasticizers and cause brittleness which leads to cracking with repeated use.

[Textured Pictures](#)[Un-Textured Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)

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# FLOOR CARE GUIDE



**Resilient Floors**

Sheet / Not Textured

**Rubber**





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**3M**

# FLOOR CARE GUIDE



Resilient Floors

Tile / 24"x 24" / Textured

**Textured Rubber**





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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

3M Floor  
Pad  
Selector

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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**3M**

# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Sub-floor Telegraphing

Cracks

Color Bleeding-Fading

Surface Damage/Indentation

Stains

Common Coating Problems

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# FLOOR CARE GUIDE



## Rubber- Sub-Floor Telegraphing

**Telegraphing:** A common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the rubber; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the rubber will conform to it and will be visible on the surface. This is especially true for rubber sheet because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

**Cracks:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in the rubber losing its elasticity and causes a brittleness in the rubber that can then lead to small-scale or widespread cracking.

[Troubleshooting](#)

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**3M**

# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

Note: If coated, must be chemically stripped prior to restoration.

### Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

If cracking is still present, contact flooring manufacturer for guidance.

**Cracking-Contact Flooring  
Manufacturer For Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Color Bleeding/Fading

**Color Bleeding/Fading:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in either a color loss or color fading that will be very difficult to match if replacement is needed. Consistent exposure to sunlight can cause UV damage and can result in color fading.

[Troubleshooting](#)

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**3M**

## FLOOR CARE GUIDE



Resilient Floors

# Rubber- Color Bleeding/Fading

**Note: If coated, must be chemically stripped prior to restoration.**

Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
  2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
  3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
  4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
  5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
  6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.
- If unsuccessful contact flooring manufacture for guidance. If caused by sunlight/UV damage, look into window film/treatments to prevent further damage.**

**Color Fade/Bleeding-Contact  
Flooring Manufacturer For  
Guidance.**



Resilient Floors

## Rubber- Surface Damage/Indentations

**Indentations**- Rubber is most often seen in healthcare or sport facilities. Because of this, the floors will often be subject to heavy furniture and hospital beds/carts that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the rubber to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Surface damage**: Uncoated rubber can be susceptible to scratching from foot traffic or moving items.

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Note: If coated, must be chemically stripped prior to restoration.**

**For surface scratching try the Rubber Restoration Procedure:**

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

**For Surface Indentations-** Move the furniture and add weight distributing products. Give the indentations time to see if they rebound.

**Surface Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

**Surface indentations-**  
**Contact Flooring  
Manufacturer For  
Guidance.**



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# FLOOR CARE GUIDE



## Rubber- Stains

**Stains:** Rubber is not fully chemical resistant and is susceptible to oils, grease, and dyes. Depending on how deep the stain is, it can only be removed by abrading the depth of rubber that is holding the stain. If it has penetrated too deep, the stain may not be able to be removed.

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**3M**

# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Stains

Note: If coated, must be chemically stripped prior to restoration.

For staining try the Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

Some stains may be chemically treated if the stain still persists, contact manufacturer for guidance.

Staining-Contact  
**Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.





Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

### Potential Causes

- Extremes in temperature and humidity (low humidity in particular.
- Old or very porous floor.
- Finish applied to a freshly stripped floor.

### Possible Solutions

- Ideal is 70°F & 50% RH. Make sure HVAC is on. Use fans carefully.
- Use of a sealer is recommended.
- Allow adequate time to dry a stripped floor.



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Not Textured

Layered Sheet  
Vinyl

Rubber

Homogeneous  
Sheet Vinyl

Linoleum

Homogenous sheet vinyl is constructed of a single vinyl layer in which the color/pattern is consistent through the entire thickness. Its benefits are that if the top surface is abraded there will be no noticeable change underneath. They are also very durable and come in a vast amount of colors for flooring pattern customization. Homogeneous Sheet Vinyl can come in many sizes but are generally rolls with 6' to 12' widths.

Color can usually be 2-4 similar shades of a single color or accent colors. The pattern of this product is a much smaller one than VCT or Linoleum. It looks like the colors are flowing into each other, almost like different colors of ink mixing. Small multi-layers can often be seen in many of the different colored pieces.

[Pictures](#)

[Maintenance & Troubleshooting](#)



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# FLOOR CARE GUIDE



**Resilient Floors**

Sheet / Not Textured

**Homogeneous  
Sheet Vinyl**



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## FLOOR CARE GUIDE



Resilient Floors

# Homogeneous Sheet Vinyl

Homogenous sheet vinyl is constructed of a single vinyl layer in which the color/pattern is consistent through the entire thickness. Its benefits are that if the top surface is abraded there will be no noticeable change underneath. Homogeneous Sheet Vinyl can come in many sizes but are generally rolls with 6' to 12' widths. It is often used in areas where cleanliness is important such as healthcare. The sheet product provides a minimal amount of seams for moisture and bacteria to collect.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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# FLOOR CARE GUIDE



Resilient Floors

Sheet / Not Textured

Homogeneous  
Sheet Vinyl



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## FLOOR CARE GUIDE



Resilient Floors

# Homogeneous Sheet Vinyl

Subfloor Telescoping

Indentations

Wrinkles, Bubbles, Failing Seams

Common Coating Problems

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## FLOOR CARE GUIDE



Resilient Floors

# Homogenous Sheet Vinyl- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the Homogenous Sheet Vinyl; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the Homogenous Sheet Vinyl will conform to it and will be visible on the surface. This is especially true for Homogenous Sheet Vinyl because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

# Homogeneous Sheet Vinyl- Indentations

**Indentations**- Homogeneous Sheet vinyl is most often seen in the healthcare or the hospitality industry. Because of this, the floors will often be subject to heavy furniture and hospital beds that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the sheet vinyl to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Indentations-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



# Homogeneous Sheet Vinyl- Wrinkles, Bubbles, Failing Seams

**Bubbling-** Bubbling in homogeneous sheet vinyl can occur from several different sources. If excessive moisture is present underneath the homogeneous sheet vinyl, most often migrating through the slab, it can cause adhesion issues. Improper or left over adhesive can also cause adhesive failure. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor.

**Failing Seams-** Seams are either chemically or heat welded together to increase their durability or often laid so all seams are against walls like in hallways. Wrinkles and failing seams will occur at these natural weak points if moisture is able to penetrate into the seams. This can cause adhesion failure as dirt and moisture weaken at the seams.

**Bubbles/Failing Seams-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

| Potential Causes   | Possible Solutions   |
|--|--|
| <ul style="list-style-type: none"><li>• Finish applied too thick.</li></ul>  | <ul style="list-style-type: none"><li>• Wring mop head more to apply light-medium coats. Switch to flat mop.</li></ul>             |
| <ul style="list-style-type: none"><li>• Not enough top coats applied.</li></ul>  | <ul style="list-style-type: none"><li>• Scrub, rinse, recoat.</li></ul>  |
| <ul style="list-style-type: none"><li>• Additional coats applied too soon.</li></ul>   | <ul style="list-style-type: none"><li>• Wait for each coat to dry completely.</li></ul>  |
| <ul style="list-style-type: none"><li>• Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).</li></ul> | <ul style="list-style-type: none"><li>• Floor needs to be completely cleaned (stripped) and rinsed.</li></ul>                      |
| <ul style="list-style-type: none"><li>• Dirty mop and/or bucket.</li></ul>   | <ul style="list-style-type: none"><li>• Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.</li></ul> |
| <ul style="list-style-type: none"><li>• Ammonia or bleach used in damp mopping.</li></ul>  | <ul style="list-style-type: none"><li>• Use only cleaners that are designed for the floor.</li></ul>                               |
| <ul style="list-style-type: none"><li>• Fan used to dry finish.</li></ul>  | <ul style="list-style-type: none"><li>• Make sure fan is not blowing directly at floor finish.</li></ul>                           |
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity.</li></ul>  | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50%RH. Make sure HVAC is on. Use fans carefully.</li></ul>             |





Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Not Textured

Layered Sheet  
Vinyl

Rubber

Homogeneous  
Sheet Vinyl

Linoleum

Linoleum is a natural flooring product that is made up of wood flour, pine resins, talc, bound with linseed oil and pressed onto a jute (burlap) backing.

Because of these natural products, linoleum is sensitive to moisture, chemicals, and abrasion.

It can range from 2-6 different colors on average and will often be bright and contrasting. The pattern can be described as flowing turbulent water, with the colors mixing into and around each other. Often the jute backing creates a visible pattern on the top surface, which looks many small dimples in a grid pattern.

[Pictures](#)

[Maintenance & Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

Sheet / Not Textured

Linoleum



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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum

**Linoleum make-up:** Linseed oil, cork/wood flour, pine resin, and mineral fillers pressed onto a jute (burlap/canvas) backing.

### Linoleum Sensitivities

**Chemical:** Because of the natural products in linoleum, caution must be taken with high pH chemicals. High pH cleaning chemicals and strippers (10.5 and above) should never be used, they cause the linseed oil binder to break down. Mildly alkaline cleaners may be used for periodic cleaning. Contact flooring manufacturer for recommended cleaners.

**Abrasion:** Linoleum is a relatively soft flooring substrate due to the cork/wood flour and therefore is vulnerable to scratching. A lower abrasive pad, such as a blue or brown pad should be used if chemically stripping.

**Moisture:** Due to the jute backing, linoleum is sensitive to moisture. If moisture penetrates the surface, it can cause the jute backing to release from the adhesive. Constant moisture can cause both adhesion problems as well as mold.

3M™ products to not use: #6 Speed Stripper, #22 Floor Stripper LO, Troubleshooter™ stripper, 3M™ Floor stripper, 3M™ High Productivity Pad 7300.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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# FLOOR CARE GUIDE



**Resilient Floors**

Sheet / Not Textured

**Linoleum**





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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
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  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum

Subfloor Telegraphing

Surface Scratching

Bubbles or Warping

Chemical Damage

Common Coating Problems

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## FLOOR CARE GUIDE



### Linoleum- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the linoleum; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the linoleum will conform to it and will be visible on the surface. This is especially true for linoleum because it is quite thin and most often sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Surface Scratching

Because the main filler in linoleum is either wood pulp or a combination of wood pulp and cork, it is a relatively soft flooring substrate. Extra caution is necessary after the floor has been exposed to water because that can soften it even further.

Large objects or furniture can easily damage the floor if dragged. Floor pads that are too aggressive (High Pro Pad 7300, Black Stripping Pad 7200) if used can cause widespread small scratching.

[Troubleshooting](#)



Resilient Floors

## Linoleum- Surface Scratching

Minor scratches-appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

**Major surface scratches or not repairable- Contact Flooring Manufacturer For Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Bubbles or Warping

**Bubbling-** Bubbling in linoleum can occur from several different sources. If excessive moisture is present underneath the linoleum, most often migrating through the slab, it can cause adhesion issues. The moisture can cause the jute backing to separate from the linoleum itself or the backing can separate from the adhesive. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor, mainly when in sheet form. Surface bubbling can also form in extreme cases of chemical damage. If high pH chemicals are used, especially over a longer period of time, it will cause the linoleum to break down and possibly create bubbles.

**Warping-** Warping will generally occur on the edge of tiles or at the seams of sheet products. This is usually due to moisture entering between seams and causing the linoleum to swell and warp.

**Bubbles/Warping-Contact  
Flooring Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Chemical Damage

**Chemical Damage**- High pH chemicals (degreasers and strippers) will breakdown the linseed oil binder. This can occur after just one exposure and will become more likely after repeated exposure. Chemical damage can be observed in several different ways but most commonly as: color change/color fade, brittleness, surface cracking, softening, or bubbling.



**Chemical Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.





Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.



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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Textured

**Layered Sheet  
Vinyl**

**Rubber**

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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Textured

**Layered Sheet Vinyl**

**Rubber**

Layered sheet vinyl is composed of several layers. The top is a clear protective wear layer made of PVC or other binders. The next layer consists of binders and fillers as well as a printable film. There can also be a third backing layer of either non-foam or foam plastic. It is very similar to LVT (Luxury Vinyl Tile) in construction and can be transported and installed with much less effort.

Layered sheet vinyl can come in many sizes but are generally rolls 6' to 12' widths. This size allows it to be installed in many areas without having any seams or at most a minimal amount. Like LVT, the pattern can be anything that is printable and is generally made to look like stone tiles, ceramic tiles, or wooden floors.

**Pictures**

**Maintenance & Troubleshooting**

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# FLOOR CARE GUIDE



**Resilient Floors**

**Sheet / Textured**

**Layered Sheet  
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# FLOOR CARE GUIDE

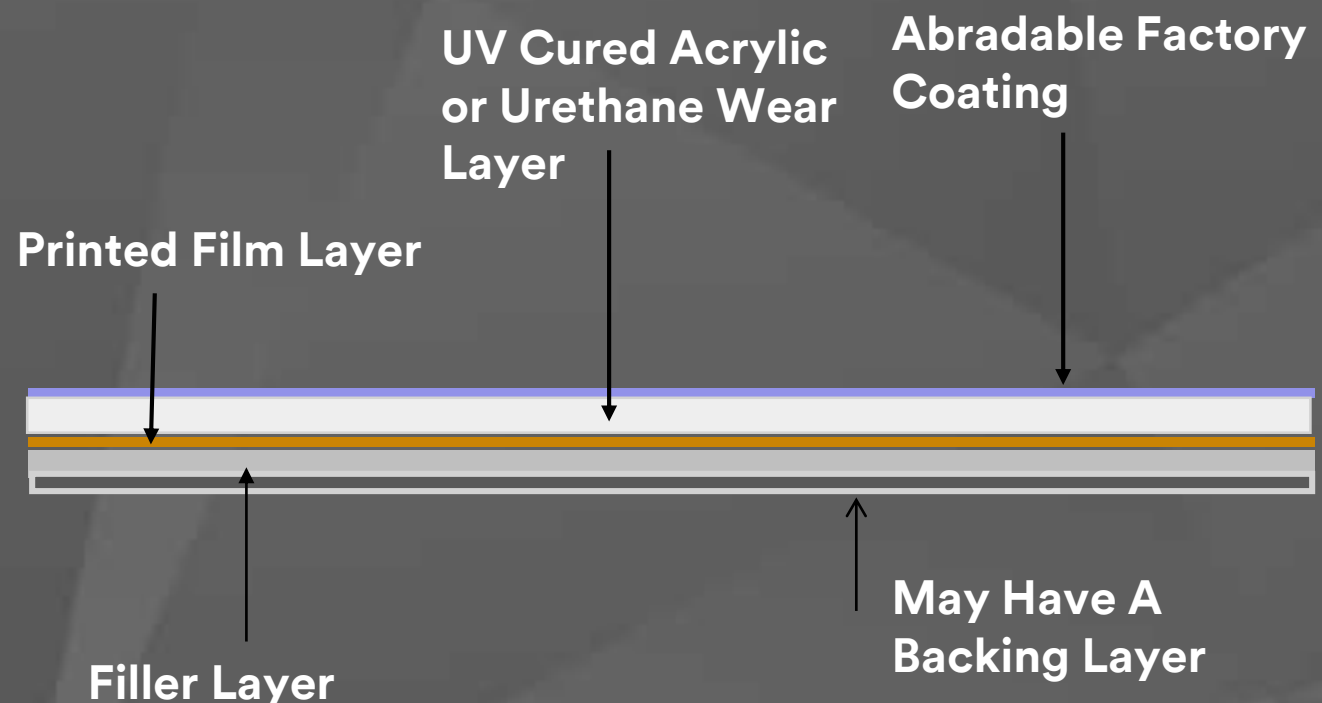


Resilient Floors

## Layered Sheet Vinyl

Layered sheet vinyl is made in a similar layered construction like LVT (Luxury Vinyl Tile) but is uncut in a 6'-12' wide roll, thinner and more flexible to facilitate shipping, and is often made without a backing. Layered sheet vinyl is often used in areas where cleanliness is important such as healthcare. The sheet product provides a minimal amount of seams for moisture and bacteria to collect.

**3M Products to not use/avoid:** aggressive stripping pads- can cause scratching of the clear wear layer.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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# FLOOR CARE GUIDE



**Resilient Floors**

**Sheet / Textured**

**Layered Sheet  
Vinyl**



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# Layered Sheet Vinyl

Subfloor Telegraphing

Indentations

Wrinkles, Bubbles, Failing Seams

Common Coating Problems

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## FLOOR CARE GUIDE



# Layered Sheet Vinyl- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the layered sheet vinyl; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the layered sheet vinyl will conform to it and will be visible on the surface. This is especially true for layered sheet vinyl because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



# Layered Sheet Vinyl- Indentations

**Indentations**- Layered sheet vinyl is most often seen in the healthcare or the hospitality industry. Because of this, the floors will often be subject to heavy furniture and hospital beds that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the sheet vinyl to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Indentations-  
Contact Flooring  
Manufacturer For  
Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

### Layered Sheet Vinyl- Bubbles and Failing Seams

**Bubbling-** Bubbling in layered sheet vinyl can occur from several different sources. If excessive moisture is present underneath the layered sheet vinyl, most often migrating through the slab, it can cause adhesion issues. Improper or left over adhesive can also cause adhesive failure. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor.

**Failing Seams-** Seams are either chemically or heat welded together to increase their durability or often laid so all seams are against walls, like in hallways. Wrinkles and failing seams will occur at these natural weak points if moisture is able to penetrate into the seams. This can cause adhesion failure as dirt and moisture weaken at the seams.

**Bubbles/Failing Seams-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

# Low Gloss/Poor Gloss

## Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

## Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Sheet / Textured

Layered Sheet  
Vinyl

Rubber

Rubber flooring is a mixture of natural or synthetic rubber, fillers, and dyes. It is a durable and flexible floor that's often uncoated for its maintenance program. Rubber is also very impact resistant which makes it a good choice for applications such as sports flooring or weight lifting areas. They are most often homogeneous throughout the entire layer.

Textured sheet rubber will almost always be one single color. The textures on the surface can be many things such as raised circles, raised diamonds, mottled, and raised squares. These textures are most often used to increase traction of the flooring substrate.

[Pictures](#)

[Maintenance & Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

Sheet / Textured

Textured Rubber



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Rubber is most commonly encountered in sheet form in healthcare and sports facilities.

**Benefits-** A good product for moisture resistance, several chemical resistances, sound dampening, good traction with textured versions, and easy to stand on for large periods of time.

**Disadvantages:** Rubber is susceptible to staining from oils and grease. Color fade/loss of color can occur with repeated use of high pH cleaners and chemical strippers as well as UV damage from direct sunlight. High pH cleaners and strippers can degrade the plasticizers and cause brittleness which leads to cracking with repeated use.

[Textured Pictures](#)[Un-Textured Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)

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# FLOOR CARE GUIDE



Resilient Floors

Sheet / Textured

Textured Rubber



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# FLOOR CARE GUIDE



**Resilient Floors**

Sheet / Un-Textured

**Rubber**





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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Sub-floor Telegraphing

Cracks

Color Bleeding-Fading

Surface Damage/Indentation

Stains

Common Coating Problems

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# FLOOR CARE GUIDE



## Rubber- Sub-Floor Telegraphing

**Telegraphing:** A common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the rubber; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the rubber will conform to it and will be visible on the surface. This is especially true for rubber sheet because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



## Rubber- Cracks

**Cracks:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in the rubber losing its elasticity and causes a brittleness in the rubber that can then lead to small-scale or widespread cracking.

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**3M**

# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

Note: If coated, must be chemically stripped prior to restoration.

### Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

If cracking is still present, contact flooring manufacturer for guidance.

**Cracking-Contact Flooring  
Manufacturer For Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Color Bleeding/Fading

**Color Bleeding/Fading:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in either a color loss or color fading that will be very difficult to match if replacement is needed. Consistent exposure to sunlight can cause UV damage and can result in color fading.

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## FLOOR CARE GUIDE



Resilient Floors

# Rubber- Color Bleeding/Fading

**Note: If coated, must be chemically stripped prior to restoration.**

Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
  2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
  3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
  4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
  5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
  6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.
- If unsuccessful contact flooring manufacture for guidance. If caused by sunlight/UV damage, look into window film/treatments to prevent further damage.**

**Color Fade/Bleeding-Contact  
Flooring Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Indentations**- Rubber is most often seen in healthcare or sport facilities. Because of this, the floors will often be subject to heavy furniture and hospital beds/carts that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the rubber to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Surface damage**: Uncoated rubber can be susceptible to scratching from foot traffic or moving items.

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Note: If coated, must be chemically stripped prior to restoration.**

**For surface scratching try the Rubber Restoration Procedure:**

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

**For Surface Indentations-** Move the furniture and add weight distributing products. Give the indentations time to see if they rebound.

**Surface Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

**Surface indentations-**  
**Contact Flooring  
Manufacturer For  
Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Stains

**Stains:** Rubber is not fully chemical resistant and is susceptible to oils, grease, and dyes. Depending on how deep the stain is, it can only be removed by abrading the depth of rubber that is holding the stain. If it has penetrated too deep, the stain may not be able to be removed.

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Stains

Note: If coated, must be chemically stripped prior to restoration.

For staining try the Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

Some stains may be chemically treated if the stain still persists, contact manufacturer for guidance.

Staining-Contact  
**Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.





Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

### Potential Causes

- Extremes in temperature and humidity (low humidity in particular.
- Old or very porous floor.
- Finish applied to a freshly stripped floor.

### Possible Solutions

- Ideal is 70°F & 50% RH. Make sure HVAC is on. Use fans carefully.
- Use of a sealer is recommended.
- Allow adequate time to dry a stripped floor.



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.



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# FLOOR CARE GUIDE



**Resilient Floors**

Tile / 24"x 24"

**Textured**

**Not Textured**

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Not Textured

**LVT**

**Rubber**

**Linoleum**

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x24" / Not Textured

LVT

Rubber

Linoleum

LVT is composed of several layers; starting top down with an abradable factory coating, urethane or UV cured acrylic wear layer, a printed film layer, a filler layer, and a backing. Often has a textured wear layer to increase aesthetics. It is becoming increasingly popular as a no coat solution in the commercial flooring industry. It will however, depending on the amount of traffic, benefit from a polymer coating which will greatly extend its life.

The printed layer can be almost any pattern available. Tiles will most often look like stone, textile, or solid colors.

[Pictures](#)

[Maintenance & Troubleshooting](#)

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Not Textured

LVT





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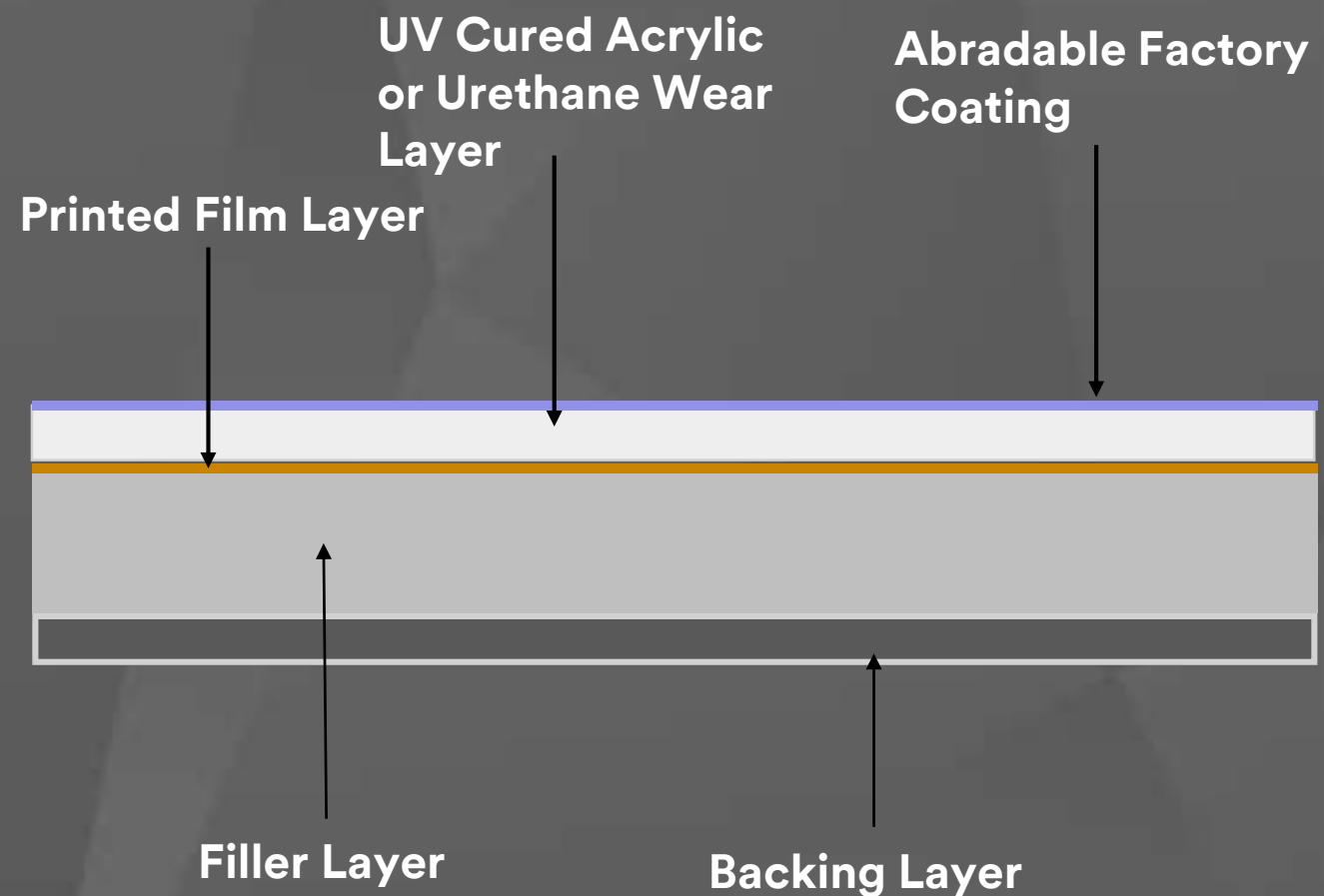
# FLOOR CARE GUIDE



Resilient Floors

## Luxury Vinyl Tile/Plank (LVT/LVP)

### Luxury Vinyl Construction



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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Not Textured

LVT



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

Prevent

Protect

**Maintain**

Restore

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# Luxury Vinyl Tile/Plank (LVT/LVP)

Surface Damage

Adhesion Issues

Subfloor Telegraphing

Shrinking, Curling, Cupping

Common Coating Problems

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Surface Damage

The clear wear layer on LVT/LVP products hold up differently depending on the amount of traffic in a facility. Areas of high traffic often see a development of traffic lane scratching that can quickly become noticeable as the center lane wear and sections closer to the walls do not. For scratching there are a few options to try.

[Troubleshooting](#)





Resilient Floors

## LVT/LVP- Surface Damage

Minor scratches- appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.
6. If unsuccessful, a blue or SPP pad can be used to even out the scratching prior to coating.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

Un-repairable  
Scratching-Contact  
**Flooring Manufacturer**  
**For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Adhesion Issues

Coating not adhering to surface- LVT/LVP are often shipped with a light factory coating to prevent them from sticking in transit. This coating must be physically abraded from the tile prior to coating to avoid adhesion issues. Scrub with a SPP or Blue Cleaner pad, rinse well and coat.

Adhesive releasing from floor- Depending on the adhesive used, repeated stripping or moisture from the slab can cause the adhesive to release from the floor.



**Adhesion Issues-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



### LVT/LVP- Sub-floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the LVT/LVP; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the LVT/LVP will conform to it and will be visible on the surface.

Telegraphing will be more noticeable on larger tiles and longer planks as well as LVT/LVP that are shiny. LVT/LVP that is textured or dull will have a less chance of showing telegraphing.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Shrinking, Curling, Cupping

Changes in humidity and heat from direct sunlight can cause many issues depending on how the LVT/LVP was manufactured. Cupping, edge curling, and adhesive failing can occur while the most common issue is shrinking of the tile itself.

LVT/LVP is manufactured under heated rollers and use pressure to create a continuous sheet. Each layer is laminated together, which can sometimes cause some internal stress. Because of the internal stresses and “memory” of the LVT/LVP it can cause some shrinkage as the product ages.

**Shrinking, Curling, Cupping-Contact Flooring Manufacturer For Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

| Potential Causes   | Possible Solutions   |
|--|--|
| <ul style="list-style-type: none"><li>• Finish applied too thick.</li></ul>  | <ul style="list-style-type: none"><li>• Wring mop head more to apply light-medium coats. Switch to flat mop.</li></ul>             |
| <ul style="list-style-type: none"><li>• Not enough top coats applied.</li></ul>  | <ul style="list-style-type: none"><li>• Scrub, rinse, recoat.</li></ul>  |
| <ul style="list-style-type: none"><li>• Additional coats applied too soon.</li></ul>   | <ul style="list-style-type: none"><li>• Wait for each coat to dry completely.</li></ul>  |
| <ul style="list-style-type: none"><li>• Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).</li></ul> | <ul style="list-style-type: none"><li>• Floor needs to be completely cleaned (stripped) and rinsed.</li></ul>                      |
| <ul style="list-style-type: none"><li>• Dirty mop and/or bucket.</li></ul>   | <ul style="list-style-type: none"><li>• Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.</li></ul> |
| <ul style="list-style-type: none"><li>• Ammonia or bleach used in damp mopping.</li></ul>  | <ul style="list-style-type: none"><li>• Use only cleaners that are designed for the floor.</li></ul>                               |
| <ul style="list-style-type: none"><li>• Fan used to dry finish.</li></ul>  | <ul style="list-style-type: none"><li>• Make sure fan is not blowing directly at floor finish.</li></ul>                           |
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity.</li></ul>  | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50%RH. Make sure HVAC is on. Use fans carefully.</li></ul>             |



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied



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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Not Textured

[LVT](#)[Rubber](#)[Linoleum](#)

Rubber flooring is a mixture of natural or synthetic rubber, fillers, and dyes. It is a durable and flexible floor that's often uncoated for its maintenance program. Rubber is also very impact resistant which makes it a good choice for applications such as sports flooring or weight lifting areas. They are most often homogeneous throughout the entire layer.

Non Textured rubber usually has between 1-4 different colors. The pattern consists of a main base color is a majority of the area with 1-3 complementary colors in angled or rounded speckled form. These speckles will also be randomly spaced and of similar size.

[Pictures](#)[Maintenance & Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

Tile / 24"x 24" / Not Textured

Rubber





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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Rubber is most commonly encountered in sheet form in healthcare and sports facilities.

**Benefits-** A good product for moisture resistance, several chemical resistances, sound dampening, good traction with textured versions, and easy to stand on for large periods of time.

**Disadvantages:** Rubber is susceptible to staining from oils and grease. Color fade/loss of color can occur with repeated use of high pH cleaners and chemical strippers as well as UV damage from direct sunlight. High pH cleaners and strippers can degrade the plasticizers cause brittleness which leads to cracking with repeated use.

[Textured Pictures](#)[Un-Textured Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Not Textured

Rubber



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 24"x 24" / Textured

**Textured Rubber**



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

[Prevent](#)[Protect](#)[Maintain](#)[Restore](#)



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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
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Prevent

Protect

**Maintain**

Restore

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Sub-floor Telegraphing

Cracks

Color Bleeding-Fading

Surface Damage/Indentation

Stains

Common Coating Problems



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# FLOOR CARE GUIDE



## Rubber- Sub-Floor Telegraphing

**Telegraphing:** A common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the rubber; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the rubber will conform to it and will be visible on the surface. This is especially true for rubber sheet because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

**Cracks:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in the rubber losing its elasticity and causes a brittleness in the rubber that can then lead to small-scale or widespread cracking.

[Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

Note: If coated, must be chemically stripped prior to restoration.

### Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

If cracking is still present, contact flooring manufacturer for guidance.

**Cracking-Contact Flooring  
Manufacturer For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Color Bleeding/Fading

**Color Bleeding/Fading:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in either a color loss or color fading that will be very difficult to match if replacement is needed. Consistent exposure to sunlight can cause UV damage and can result in color fading.

[Troubleshooting](#)



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## FLOOR CARE GUIDE



Resilient Floors

# Rubber- Color Bleeding/Fading

**Note: If coated, must be chemically stripped prior to restoration.**

Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
  2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
  3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
  4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
  5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
  6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.
- If unsuccessful contact flooring manufacture for guidance. If caused by sunlight/UV damage, look into window film/treatments to prevent further damage.**

**Color Fade/Bleeding-Contact  
Flooring Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Indentations**- Rubber is most often seen in healthcare or sport facilities. Because of this, the floors will often be subject to heavy furniture and hospital beds/carts that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the rubber to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Surface damage**: Uncoated rubber can be susceptible to scratching from foot traffic or moving items.

[Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Note: If coated, must be chemically stripped prior to restoration.**

**For surface scratching try the Rubber Restoration Procedure:**

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

**For Surface Indentations-** Move the furniture and add weight distributing products. Give the indentations time to see if they rebound.

**Surface Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

**Surface indentations-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



## Rubber- Stains

**Stains:** Rubber is not fully chemical resistant and is susceptible to oils, grease, and dyes. Depending on how deep the stain is, it can only be removed by abrading the depth of rubber that is holding the stain. If it has penetrated too deep, the stain may not be able to be removed.

[Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Stains

Note: If coated, must be chemically stripped prior to restoration.

For staining try the Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

Some stains may be chemically treated if the stain still persists, contact manufacturer for guidance.

Staining-Contact  
**Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

# Low Gloss/Poor Gloss

## Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

## Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Not Textured

[LVT](#)[Rubber](#)[Linoleum](#)

Linoleum is a natural flooring product that is made up of wood flour, pine resins, talc, bound with linseed oil and pressed onto a jute (burlap) backing.

Because of these natural products, linoleum is sensitive to moisture, chemicals, and abrasion.

It can range from 2-6 different colors on average and will often be bright and contrasting. The pattern can be described as flowing turbulent water, with the colors mixing into and around each other. Often the jute backing creates a visible pattern on the top surface, which looks many small dimples in a grid pattern.

[Pictures](#)[Maintenance & Troubleshooting](#)



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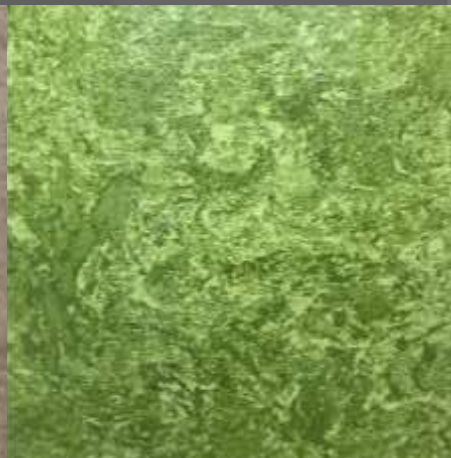
# FLOOR CARE GUIDE



Resilient Floors

Tile / 24"x 24" / Not Textured

Linoleum



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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum

**Linoleum make-up:** Linseed oil, cork/wood flour, pine resin, and mineral fillers pressed onto a jute (burlap/canvas) backing.

### Linoleum Sensitivities

**Chemical:** Because of the natural products in linoleum, caution must be taken with high pH chemicals. High pH cleaning chemicals and strippers (10.5 and above) should never be used, they cause the linseed oil binder to break down. Mildly alkaline cleaners may be used for periodic cleaning. Contact flooring manufacturer for recommended cleaners.

**Abrasion:** Linoleum is a relatively soft flooring substrate due to the cork/wood flour and therefore is vulnerable to scratching. A lower abrasive pad, such as a blue or brown pad should be used if chemically stripping.

**Moisture:** Due to the jute backing, linoleum is sensitive to moisture. If moisture penetrates the surface, it can cause the jute backing to release from the adhesive. Constant moisture can cause both adhesion problems as well as mold.

3M™ products to not use: #6 Speed Stripper, #22 Floor Stripper LO, Troubleshooter™ stripper, 3M™ Floor stripper, 3M™ High Productivity Pad 7300.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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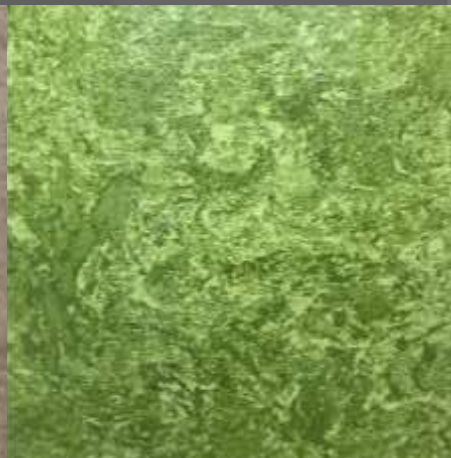
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Resilient Floors

Tile / 24"x 24" / Not Textured

Linoleum



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

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**Maintain**

Restore

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum

Subfloor Telegraphing

Surface Scratching

Bubbles or Warping

Chemical Damage

Common Coating Problems

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## FLOOR CARE GUIDE



### Linoleum- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the linoleum; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the linoleum will conform to it and will be visible on the surface. This is especially true for linoleum because it is quite thin and most often sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

# Linoleum- Surface Scratching

Because the main filler in linoleum is either wood pulp or a combination of wood pulp and cork, it is a relatively soft flooring substrate. Extra caution is necessary after the floor has been exposed to water because that can soften it even further.

Large objects or furniture can easily damage the floor if dragged. Floor pads that are too aggressive (High Pro Pad 7300, Black Stripping Pad 7200) if used, can cause widespread small scratching.

[Troubleshooting](#)



Resilient Floors

## Linoleum- Surface Scratching

Minor scratches-appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

**Major surface scratches or not repairable- Contact Flooring Manufacturer For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Bubbles or Warping

**Bubbling-** Bubbling in linoleum can occur from several different sources. If excessive moisture is present underneath the linoleum, most often migrating through the slab, it can cause adhesion issues. The moisture can cause the jute backing to separate from the linoleum itself or the backing can separate from the adhesive. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor, mainly when in sheet form. Surface bubbling can also form in extreme cases of chemical damage. If high pH chemicals are used, especially over a longer period of time, it will cause the linoleum to break down and possibly create bubbles.

**Warping-** Warping will generally occur on the edge of tiles or at the seams of sheet products. This is usually due to moisture entering between seams and causing the linoleum to swell and warp.

**Bubbles/Warping-Contact  
Flooring Manufacturer For  
Guidance.**

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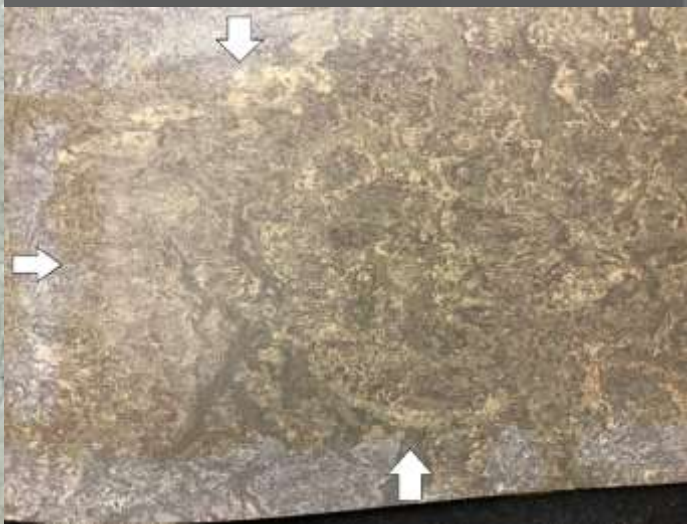
# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Chemical Damage

**Chemical Damage**- High pH chemicals (degreasers and strippers) will breakdown the linseed oil binder. This can occur after just one exposure and will become more likely after repeated exposure. Chemical damage can be observed in several different ways but most commonly as: color change/color fade, brittleness, surface cracking, softening, or bubbling.



**Chemical Damage-**  
**Contact Flooring**  
**Manufacturer For**  
**Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied



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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

### Potential Causes

- Extremes in temperature and humidity (low humidity in particular.
- Old or very porous floor.
- Finish applied to a freshly stripped floor.

### Possible Solutions

- Ideal is 70°F & 50% RH. Make sure HVAC is on. Use fans carefully.
- Use of a sealer is recommended.
- Allow adequate time to dry a stripped floor.



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Textured

LVT

Rubber

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Textured

LVT

Rubber

Rubber flooring is a mixture of natural or synthetic rubber, fillers, and dyes. It is a durable and flexible floor that's often uncoated for its maintenance program. Rubber is also very impact resistant which makes it a good choice for applications such as sports flooring or weight lifting areas. They are most often homogeneous throughout the entire layer.

Textured sheet rubber will almost always be one single color. The textures on the surface can be many things such as raised circles, raised diamonds, mottled, and raised squares.

[Pictures](#)

[Maintenance & Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 24"x 24" / Textured

**Textured Rubber**



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Rubber is most commonly encountered in sheet form in healthcare and sports facilities.

**Benefits-** A good product for moisture resistance, several chemical resistances, sound dampening, good traction with textured versions, and easy to stand on for large periods of time.

**Disadvantages:** Rubber is susceptible to staining from oils and grease. Color fade/loss of color can occur with repeated use of high pH cleaners and chemical strippers as well as UV damage from direct sunlight. High pH cleaners and strippers can degrade the plasticizers cause brittleness which leads to cracking with repeated use.

[Textured Pictures](#)[Un-Textured Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)

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# FLOOR CARE GUIDE



**Resilient Floors**

Sheet / Not Textured

**Rubber**



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 24"x 24" / Textured

**Textured Rubber**





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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Sub-floor Telegraphing

Cracks

Color Bleeding-Fading

Surface Damage/Indentation

Stains

Common Coating Problems

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# FLOOR CARE GUIDE



## Rubber- Sub-Floor Telegraphing

**Telegraphing:** A common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the rubber; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the rubber will conform to it and will be visible on the surface. This is especially true for rubber sheet because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

**Cracks:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in the rubber losing its elasticity and causes a brittleness in the rubber that can then lead to small-scale or widespread cracking.

[Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

Note: If coated, must be chemically stripped prior to restoration.

### Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

If cracking is still present, contact flooring manufacturer for guidance.

**Cracking-Contact Flooring  
Manufacturer For Guidance.**



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Color Bleeding/Fading

**Color Bleeding/Fading:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in either a color loss or color fading that will be very difficult to match if replacement is needed. Consistent exposure to sunlight can cause UV damage and can result in color fading.

[Troubleshooting](#)

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## FLOOR CARE GUIDE



Resilient Floors

# Rubber- Color Bleeding/Fading

**Note: If coated, must be chemically stripped prior to restoration.**

Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
  2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
  3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
  4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
  5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
  6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.
- If unsuccessful contact flooring manufacture for guidance. If caused by sunlight/UV damage, look into window film/treatments to prevent further damage.**

**Color Fade/Bleeding-Contact  
Flooring Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Indentations**- Rubber is most often seen in healthcare or sport facilities. Because of this, the floors will often be subject to heavy furniture and hospital beds/carts that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the rubber to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Surface damage**: Uncoated rubber can be susceptible to scratching from foot traffic or moving items.

[Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Note: If coated, must be chemically stripped prior to restoration.**

**For surface scratching try the Rubber Restoration Procedure:**

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

**For Surface Indentations-** Move the furniture and add weight distributing products and give the indentations time to see if they rebound.

**Surface Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

**Surface indentations-**  
**Contact Flooring  
Manufacturer For  
Guidance.**



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# FLOOR CARE GUIDE



## Rubber- Stains

**Stains:** Rubber is not fully chemical resistant and is susceptible to oils, grease, and dyes. Depending on how deep the stain is, it can only be removed by abrading the depth of rubber that is holding the stain. If it has penetrated too deep, the stain may not be able to be removed.

[Troubleshooting](#)

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**3M**

# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Stains

Note: If coated, must be chemically stripped prior to restoration.

For staining try the Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

Some stains may be chemically treated if the stain still persists, contact manufacturer for guidance.

**Staining-Contact  
Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.





Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.



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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Textured

LVT

Rubber

LVT (Luxury Vinyl Tile) is composed of several layers; starting top down with an abradable factory coating, a clear urethane or UV cured acrylic wear layer, a printed film layer, a filler layer, and a backing. It is becoming increasingly popular as a no coat solution in the commercial flooring industry. It will however, depending on the amount of traffic, benefit from a polymer coating which will greatly extend its life.

Tiles will most often look like stone, textile, or solid colors.

[Pictures](#)

[Maintenance & Troubleshooting](#)

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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Textured

LVT



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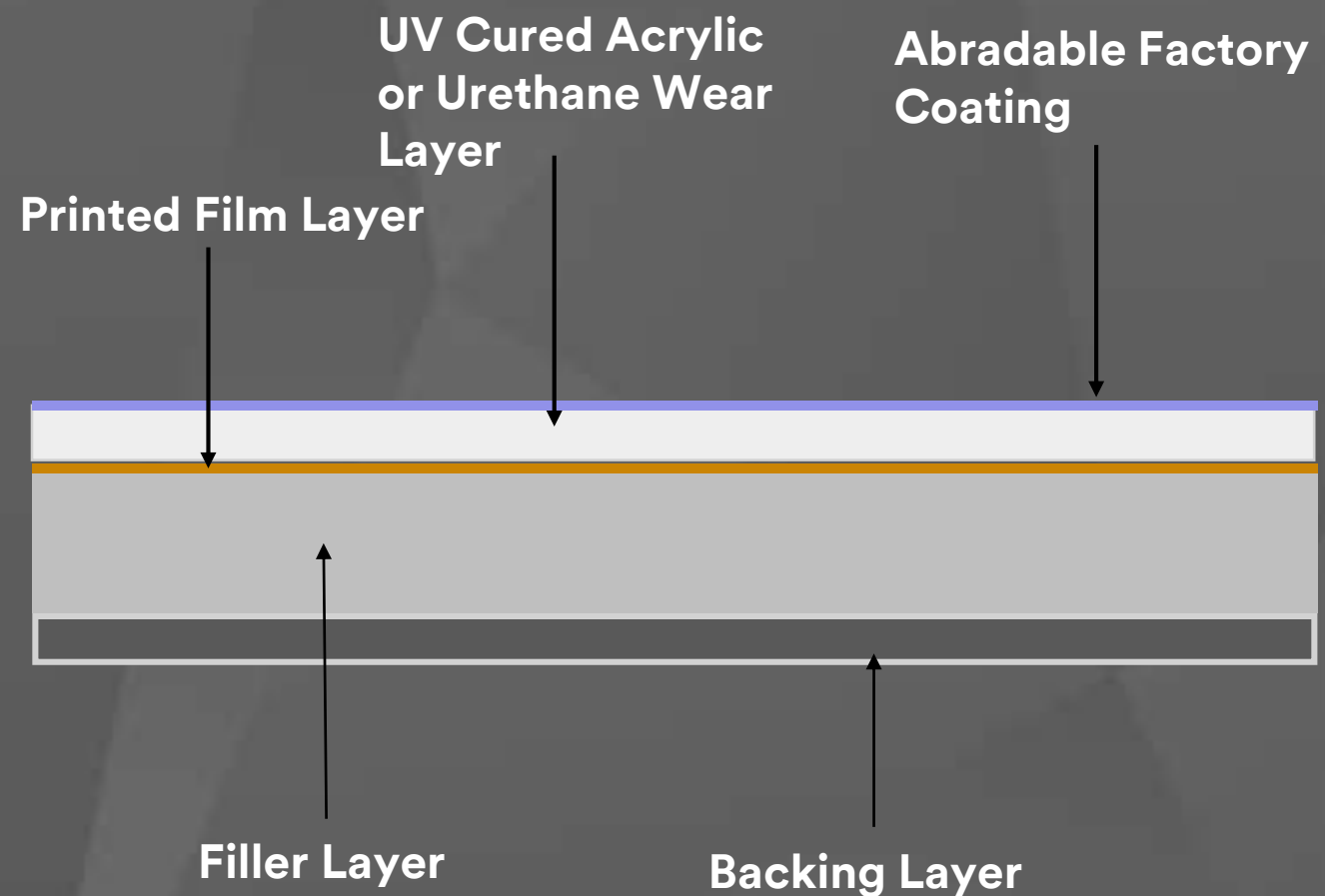
# FLOOR CARE GUIDE



Resilient Floors

## Luxury Vinyl Tile/Plank (LVT/LVP)

### Luxury Vinyl Construction



Pictures

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Floor Repair  
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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 24"x 24" / Textured

LVT





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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

Prevent

Protect

**Maintain**

Restore

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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# Luxury Vinyl Tile/Plank (LVT/LVP)

Surface Damage

Adhesion Issues

Subfloor Telegraphing

Shrinking, Curling, Cupping

Common Coating Problems

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Surface Damage

The clear wear layer on LVT/LVP products hold up differently depending on the amount of traffic in a facility. Areas of high traffic often see a development of traffic lane scratching that can quickly become noticeable as the center lane wear and sections closer to the walls do not. For scratching there are a few options to try.

[Troubleshooting](#)

**Resilient Floors**

## LVT/LVP- Surface Damage

Minor scratches- appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.
6. If unsuccessful, a blue or SPP pad can be used to even out the scratching prior to coating.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

Un-repairable  
Scratching-Contact  
**Flooring Manufacturer**  
**For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Adhesion Issues

Coating not adhering to surface- LVT/LVP are often shipped with a light factory coating to prevent them from sticking in transit. This coating must be physically abraded from the tile prior to coating to avoid adhesion issues. Scrub with a SPP or Blue Cleaner pad, rinse well and coat.

Adhesive releasing from floor- Depending on the adhesive used, repeated stripping or moisture from the slab can cause the adhesive to release from the floor.



**Adhesion Issues-  
Contact Flooring  
Manufacturer For  
Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

### LVT/LVP- Sub-floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the LVT/LVP; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the LVT/LVP will conform to it and will be visible on the surface.

Telegraphing will be more noticeable on larger tiles and longer planks as well as LVT/LVP that are shiny. LVT/LVP that is textured or dull will have a less chance of showing telegraphing.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## LVT/LVP- Shrinking, Curling, Cupping

Changes in humidity and heat from direct sunlight can cause many issues depending on how the LVT/LVP was manufactured. Cupping, edge curling, and adhesive failing can occur while the most common issue is shrinking of the tile itself.

LVT/LVP is manufactured under heated rollers and use pressure to create a continuous sheet. Each layer is laminated together, which can sometimes cause some internal stress. Because of the internal stresses and “memory” of the LVT/LVP it can cause some shrinkage as the product ages.

**Shrinking, Curling, Cupping-Contact Flooring Manufacturer For Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



Resilient Floors

## Low Gloss/Poor Gloss

| Potential Causes   | Possible Solutions   |
|--|--|
| <ul style="list-style-type: none"><li>• Finish applied too thick.</li></ul>  | <ul style="list-style-type: none"><li>• Wring mop head more to apply light-medium coats. Switch to flat mop.</li></ul>             |
| <ul style="list-style-type: none"><li>• Not enough top coats applied.</li></ul>  | <ul style="list-style-type: none"><li>• Scrub, rinse, recoat.</li></ul>  |
| <ul style="list-style-type: none"><li>• Additional coats applied too soon.</li></ul>   | <ul style="list-style-type: none"><li>• Wait for each coat to dry completely.</li></ul>  |
| <ul style="list-style-type: none"><li>• Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).</li></ul> | <ul style="list-style-type: none"><li>• Floor needs to be completely cleaned (stripped) and rinsed.</li></ul>                      |
| <ul style="list-style-type: none"><li>• Dirty mop and/or bucket.</li></ul>   | <ul style="list-style-type: none"><li>• Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.</li></ul> |
| <ul style="list-style-type: none"><li>• Ammonia or bleach used in damp mopping.</li></ul>  | <ul style="list-style-type: none"><li>• Use only cleaners that are designed for the floor.</li></ul>                               |
| <ul style="list-style-type: none"><li>• Fan used to dry finish.</li></ul>  | <ul style="list-style-type: none"><li>• Make sure fan is not blowing directly at floor finish.</li></ul>                           |
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity.</li></ul>  | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50%RH. Make sure HVAC is on. Use fans carefully.</li></ul>             |





Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.



Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.
- Damp mopped with dirty water and/or mops.
- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.
- Build up of disinfectant cleaner.
- Extremes in temperature and humidity.
- Additional coats applied too soon.
- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.
- Use only clean mops and buckets. Change water frequently.
- Use only cleaners that are designed for the floor according to manufacturing specifications.
- Periodically clean floor with neutral cleaner to help remove any buildup.
- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



Resilient Floors

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.



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## FLOOR CARE GUIDE

A photograph of a brightly lit hallway with a polished, reflective resilient floor. The floor shows a blue and yellow pattern. On the left is a brick wall, and on the right are rows of yellow lockers.

# Resilient Flooring

**Resilient Flooring  
Information and  
Maintenance Tips**

**Resilient Flooring  
Troubleshooting and  
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**Common Coating  
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## FLOOR CARE GUIDE

# Information and Maintenance Tips

**Vinyl Composition Tile (VCT)**

**Luxury Vinyl Tile/Plank**

**Linoleum**

**Layered Sheet Vinyl**

**Homogeneous Sheet Vinyl**

**Rubber**

**Specialty Flooring**

**Common Coating Problems**

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## FLOOR CARE GUIDE

# Troubleshooting and Issues

**Vinyl Composition Tile (VCT)**

**Luxury Vinyl Tile/Plank**

**Linoleum**

**Layered Sheet Vinyl**

**Homogeneous Sheet Vinyl**

**Rubber**

**Specialty Flooring**

**Common Coating Problems**

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# FLOOR CARE GUIDE



Resilient Floors

## Vinyl Composition Tile (VCT)

**VET-** Vinyl Enhanced Tile is almost indistinguishable from VCT visually but has a higher vinyl binder content. VET is a sub-set of VCT and can be treated the same way.

**SVT-** Solid Vinyl Tile is almost indistinguishable from VCT visually and has a higher vinyl binder content than VCT and VET. SVT is a sub-set of VCT and can be treated the same way.

Because VCT tiles are made up of approx. 70% limestone, they are susceptible to cracking if stressed past the point of their resiliency.

**Floor Prep Tips-** Bare VCT tiles can be prepped before coating for a better looking floor, especially old or worn tiles. Scrub worn floor with SPP for a fresh coating surface or with the Purple Diamond Pad for a deep clean.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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# FLOOR CARE GUIDE



## Resilient Floors

Tile / 12"x 12" / Not Textured

VCT



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

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Restore



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# FLOOR CARE GUIDE



Resilient Floors

## Restore

3M Solutions

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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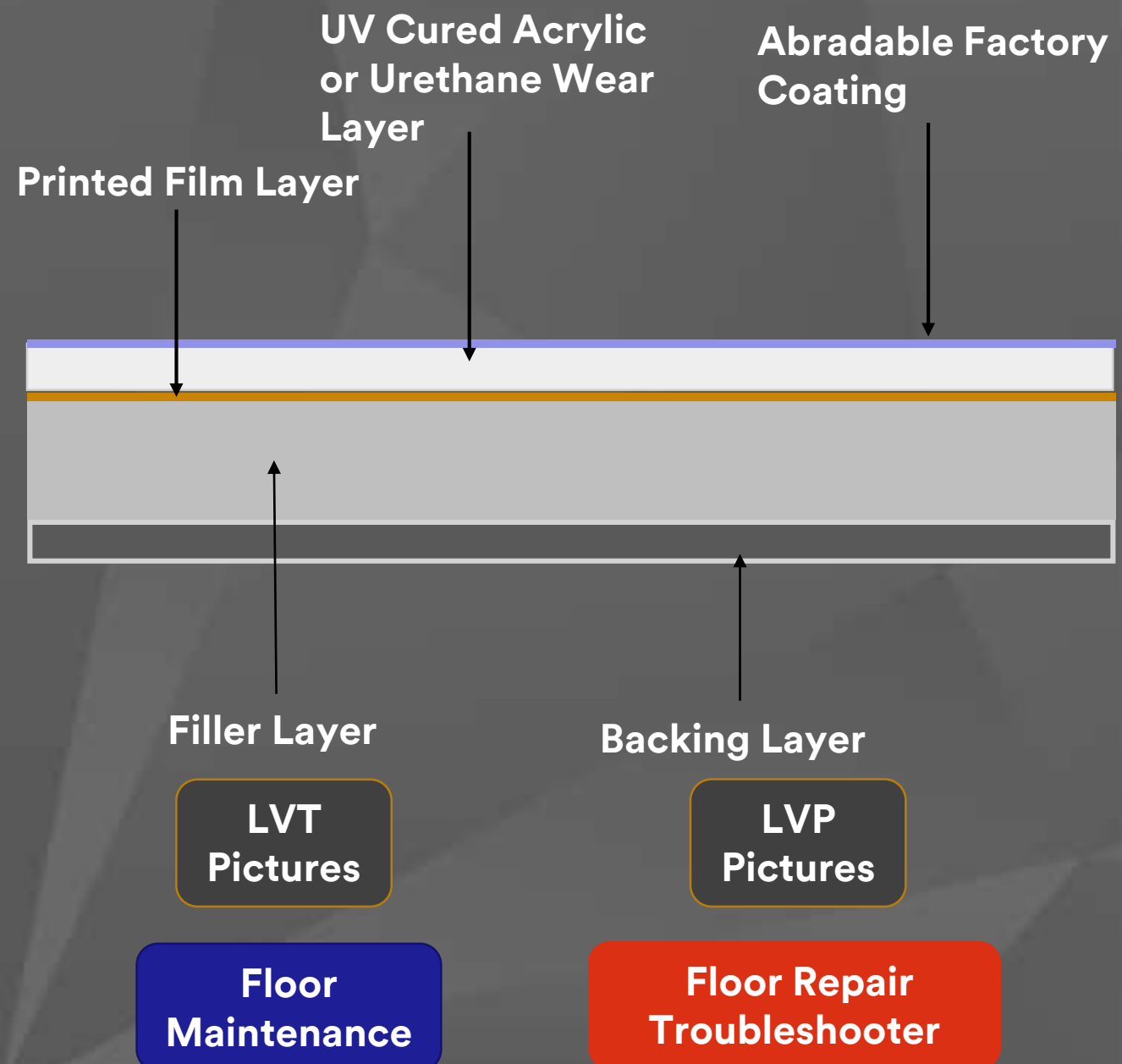
# FLOOR CARE GUIDE



Resilient Floors

## Luxury Vinyl Tile/Plank (LVT/LVP)

### Luxury Vinyl Construction



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# FLOOR CARE GUIDE



Resilient Floors

Tile / 12"x 12" / Textured

## LVT-Luxury Vinyl Tile



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# FLOOR CARE GUIDE



**Resilient Floors**

Plank / Textured and Non-Textured

## LVP-Luxury Vinyl Plank



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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
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- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

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Resilient Floors

## Restore

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## Linoleum

**Linoleum make-up:** Linseed oil, cork/wood flour, pine resin, and mineral fillers pressed onto a jute (burlap/canvas) backing.

### Linoleum Sensitivities

**Chemical:** Because of the natural products in linoleum, caution must be taken with high pH chemicals. High pH cleaning chemicals and strippers (10.5 and above) should never be used, they cause the linseed oil binder to break down. Mildly alkaline cleaners may be used for periodic cleaning. Contact flooring manufacturer for recommended cleaners.

**Abrasion:** Linoleum is a relatively soft flooring substrate due to the cork/wood flour and therefor is vulnerable to scratching. A lower abrasive pad, such as a blue or brown pad should be used if chemically stripping.

**Moisture:** Due to the jute backing, linoleum is sensitive to moisture. If moisture penetrates the surface, it can cause the jute backing to release from the adhesive. Constant moisture can cause both adhesion problems as well as mold.

3M™ products to not use: #6 Speed Stripper, #22 Floor Stripper LO, Troubleshooter™ stripper, 3M™ Floor stripper, 3M™ High Productivity Pad 7300.

[Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)



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**Linoleum**



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## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

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## Protect

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- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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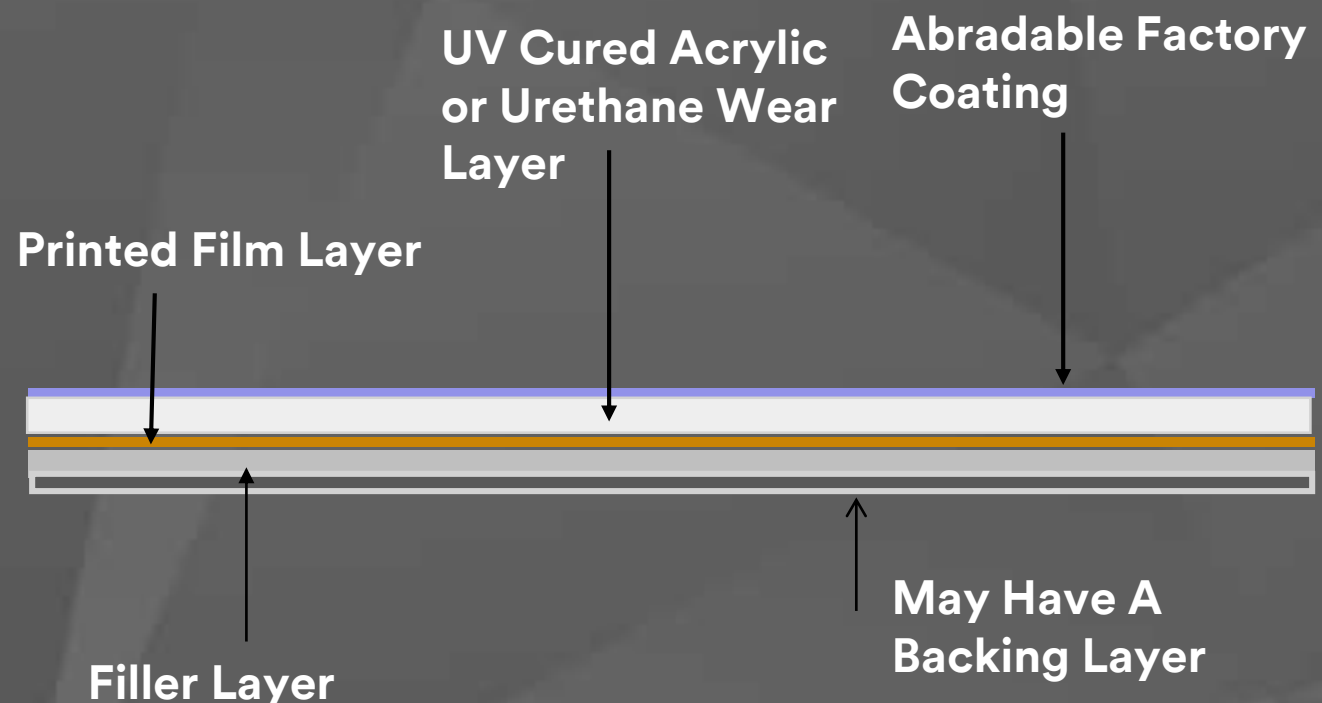


Resilient Floors

## Layered Sheet Vinyl

Layered sheet vinyl is made in a similar layered construction like LVT but is uncut in a 6'-12' wide roll, thinner and more flexible to facilitate shipping, and is often made without a backing. Layered sheet vinyl is often used in areas where cleanliness is important such as healthcare. The sheet product provides a minimal amount of seams for moisture and bacteria to collect.

**3M Products to not use/avoid:** aggressive stripping pads- can cause scratching of the clear wear layer.

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## FLOOR CARE GUIDE



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# Homogeneous Sheet Vinyl

Homogenous sheet vinyl is constructed of a single vinyl layer in which the color/pattern is consistent through the entire thickness. Its benefits are that if the top surface is abraded there will be no noticeable change underneath. Homogeneous Sheet Vinyl can come in many sizes but are generally rolls with 6' to 12' widths. It is often used in areas where cleanliness is important such as healthcare. The sheet product provides a minimal amount of seams for moisture and bacteria to collect.

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber

Rubber is most commonly encountered in sheet form in healthcare and sports facilities.

**Benefits-** A good product for moisture resistance, several chemical resistances, sound dampening, good traction with textured versions, and easy to stand on for large periods of time.

**Disadvantages:** Rubber is susceptible to staining from oils and grease. Color fade/loss of color can occur with repeated use of high pH cleaners and chemical strippers as well as UV damage from direct sunlight. High pH cleaners and strippers can degrade the plasticizers cause brittleness which leads to cracking with repeated use.

[Textured Pictures](#)[Un-Textured Pictures](#)[Floor Maintenance](#)[Floor Repair Troubleshooter](#)

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**Textured Rubber**





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# FLOOR CARE GUIDE



Resilient Floors

## Specialty Flooring

For the following flooring substrates, contact the flooring manufacture for guidance in the event of damage to the floor.

Fritztile- A specialty flooring that is made up of a resin matrix mixed with glass and aggregate chips.

[Fritztile](#)

Bamboo- A wood-like product made from the bamboo plant that will look like hardwood flooring but will often have joints every 1'-2'. Very moisture sensitive.

[Bamboo Pictures](#)

Cork- A wood-like product that is made of ground up bark mixed with various resins and then heat treated. Very moisture sensitive.

[Cork Pictures](#)

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## Bamboo





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## Cork





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# FLOOR CARE GUIDE



Resilient Floors

## VCT- Cracking on the Edges

VCT tiles can crack along the entire edge or at the corners and can range from just one side to all. This cracking pattern is a result of the edges/sides of the VCT lifting off of the adhesive and drying. Pedestrian traffic over these affected tiles will often force them past the VCT resiliency point and result in damage. There are a few possibilities that cause this cracking pattern:

- Moisture beneath the tile or excessive moisture in the adhesive
- Not using a weighted roller on the tiles at installation.
- Left over adhesive from previous flooring can cause the new adhesive not to bond to the floor.



**Cracking-Contact  
Flooring Manufacturer  
For Guidance.**

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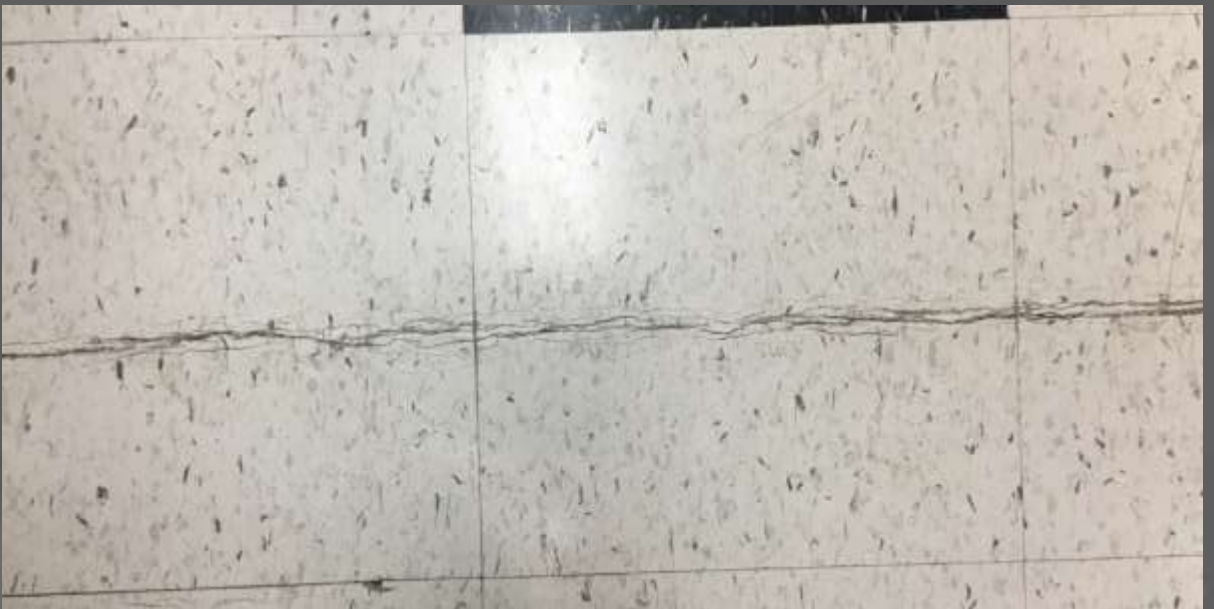
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## VCT- Cracking over Concrete Expansion Joints

Concrete slabs are poured in sections when installed. Between these sections are concrete expansion joints that are used in order to relieve stress and prevent cracking in the concrete slab as it expands and contracts from temperature changes. VCT that is installed and adhered above these expansion joints are also subject to the movement of the expansion joints. This often ends with linear cracks in the VCT along the expansion joints where it was stressed past its resiliency.



**Cracking-Contact  
Flooring Manufacturer  
For Guidance.**



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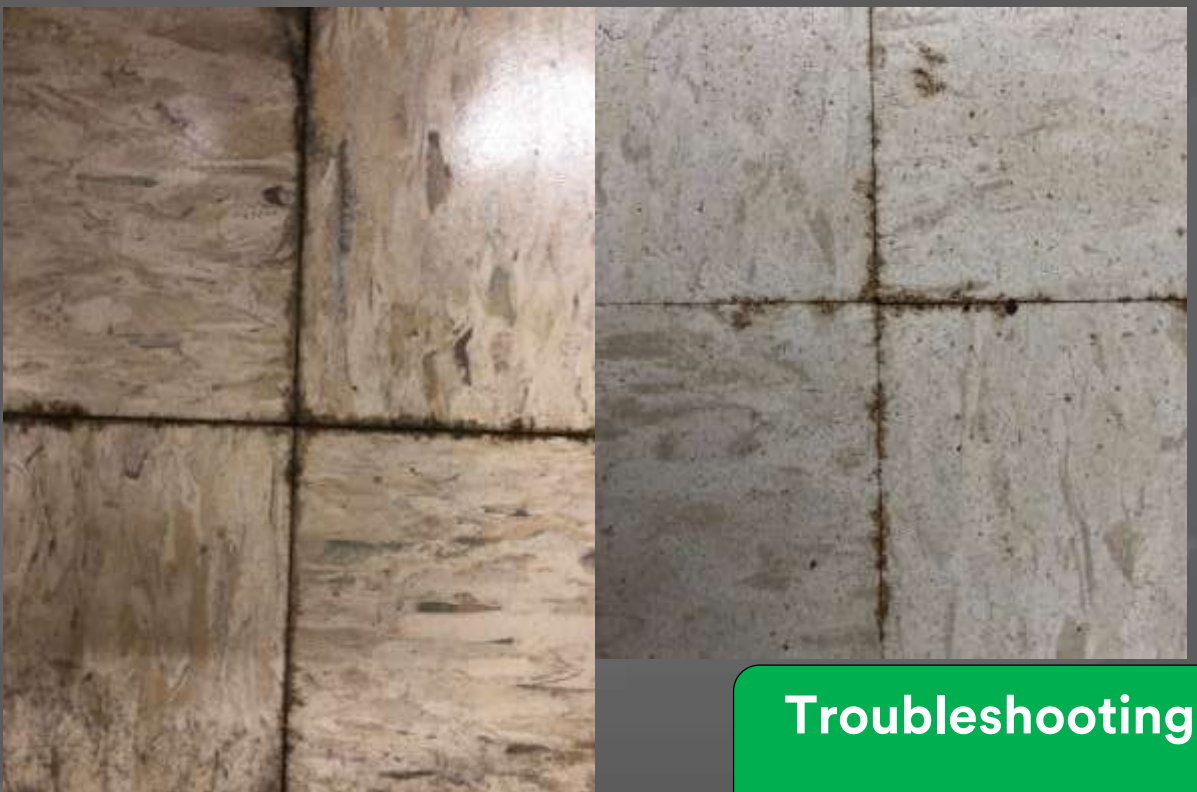


Resilient Floors

## VCT- Adhesion Bleeding Around Tiles

Adhesive bleeding between VCT tiles is a result of the underlying adhesive exuding between the tiles and onto the surface. This can be caused by using too much adhesive or the improper kind of adhesive. It can also be caused by moisture in the concrete softening the adhesive, allowing it to migrate up between tiles.

On isolated instances of adhesive bleeding, mineral spirits can be used to clean a bare VCT tile.

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# FLOOR CARE GUIDE



Resilient Floors

## VCT- Alkaline Salt Blistering

Concrete sub-floors are permeable and allow moisture to travel through the slab and release out the top. If excessive moisture is present, it will dissolve alkaline salts from the concrete slab as it travels through. The moisture is now alkaline and can even reach a pH range of 10-13. Once this moisture leaves the concrete slab, it is trapped between the slab and the VCT flooring. Extended exposure to the highly alkaline moisture can dissolve the adhesive as well as damage the tile flooring itself as shown below.



**Blistering-Contact  
Flooring Manufacturer  
For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## VCT- Sub-Floor Telegraphing/Surface Indentations

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the VCT; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the VCT will conform to it and will be visible on the surface.

Surface Indentations occur when an object with too much force compresses a tile more than it can rebound. This is common on heavy furniture or hospital beds with small feet.



**Telegraphing-Contact Flooring Manufacturer For Guidance.**

**Surface indentation- Contact Flooring Manufacturer For Guidance.**



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# FLOOR CARE GUIDE



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## VCT- Discoloration/Surface Stains

Discoloration or stains can occur from many possible problems. Incorrect adhesive, chemical staining, and color change throughout the tile are all common encounters. The staining can be in the finish, the tile, or both.

[Troubleshooting](#)



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## LVT/LVP- Surface Damage

The clear wear layer on LVT/LVP products hold up differently depending on the amount of traffic in a facility. Areas of high traffic often see a development of traffic lane scratching that can quickly become noticeable as the center lane wear and sections closer to the walls do not. For scratching there are a few options to try.

[Troubleshooting](#)

**Resilient Floors**

## LVT/LVP- Surface Damage

Minor scratches- appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.
6. If unsuccessful, a blue or SPP pad can be used to even out the scratching prior to coating.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

Un-repairable  
Scratching-Contact  
**Flooring Manufacturer**  
**For Guidance.**

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# FLOOR CARE GUIDE



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## LVT/LVP- Adhesion Issues

Coating not adhering to surface- LVT/LVP are often shipped with a light factory coating to prevent them from sticking in transit. This coating must be physically abraded from the tile prior to coating to avoid adhesion issues. Scrub with a SPP or Blue Cleaner pad, rinse well and coat.

Adhesive releasing from floor- Depending on the adhesive used, repeated stripping or moisture from the slab can cause the adhesive to release from the floor.



**Adhesion Issues-  
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### LVT/LVP- Sub-floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the LVT/LVP; debris, left over adhesive, large trowel marks, or anything else present must be removed or leveled. If any of these are not removed, the LVT/LVP will conform to it and will be visible on the surface.

Telegraphing will be more noticeable on larger tiles and longer planks as well as LVT/LVP that are shiny. LVT/LVP that is textured or dull will have a less chance of showing telegraphing.

**Telegraphing-  
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Manufacturer For  
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## FLOOR CARE GUIDE



### LVT/LVP- Shrinking, Curling, Cupping

Changes in humidity and heat from direct sunlight can cause many issues depending on how the LVT/LVP was manufactured. Cupping, edge curling, and adhesive failing can occur while the most common issue is shrinking of the tile itself.

LVT/LVP is manufactured under heated rollers and use pressure to create a continuous sheet. Each layer is laminated together, which can sometimes cause some internal stress. Because of the internal stresses and “memory” of the LVT/LVP it can cause some shrinkage as the product ages.

**Shrinking, Curling, Cupping-Contact Flooring Manufacturer For Guidance.**

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## FLOOR CARE GUIDE



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# Layered Sheet Vinyl- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the layered sheet vinyl; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the layered sheet vinyl will conform to it and will be visible on the surface. This is especially true for layered sheet vinyl because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
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## FLOOR CARE GUIDE



Resilient Floors

# Layered Sheet Vinyl- Indentations

**Indentations**- Layered sheet vinyl is most often seen in the healthcare or the hospitality industry. Because of this, the floors will often be subject to heavy furniture and hospital beds that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the sheet vinyl to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Indentations-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

### Layered Sheet Vinyl- Bubbles and Failing Seams

**Bubbling-** Bubbling in layered sheet vinyl can occur from several different sources. If excessive moisture is present underneath the layered sheet vinyl, most often migrating through the slab, it can cause adhesion issues. Improper or left over adhesive can also cause adhesive failure. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor.

**Failing Seams-** Seams are either chemically or heat welded together to increase their durability or often laid so all seams are against walls, like in hallways. Wrinkles and failing seams will occur at these natural weak points if moisture is able to penetrate into the seams. This can cause adhesion failure as dirt and moisture weaken at the seams.

**Bubbles/Failing Seams-**  
**Contact Flooring  
Manufacturer For  
Guidance.**



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## FLOOR CARE GUIDE



Resilient Floors

# Homogenous Sheet Vinyl- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the Homogenous Sheet Vinyl; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the Homogenous Sheet Vinyl will conform to it and will be visible on the surface. This is especially true for Homogenous Sheet Vinyl because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Homogeneous Sheet Vinyl- Indentations

**Indentations**- Homogeneous Sheet vinyl is most often seen in the healthcare or the hospitality industry. Because of this, the floors will often be subject to heavy furniture and hospital beds that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the sheet vinyl to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Indentations-  
Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



# Homogeneous Sheet Vinyl- Wrinkles, Bubbles, Failing Seams

**Bubbling-** Bubbling in homogeneous sheet vinyl can occur from several different sources. If excessive moisture is present underneath the homogeneous sheet vinyl, most often migrating through the slab, it can cause adhesion issues. Improper or left over adhesive can also cause adhesive failure. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor.

**Failing Seams-** Seams are either chemically or heat welded together to increase their durability or often laid so all seams are against walls like in hallways. Wrinkles and failing seams will occur at these natural weak points if moisture is able to penetrate into the seams. This can cause adhesion failure as dirt and moisture weaken at the seams.

**Bubbles/Failing Seams-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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## FLOOR CARE GUIDE



Resilient Floors

# Linoleum- Sub-Floor Telegraphing

Telegraphing is a common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the linoleum; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the linoleum will conform to it and will be visible on the surface. This is especially true for linoleum because it is quite thin and most often sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**



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# FLOOR CARE GUIDE



## Linoleum- Surface Scratching

Because the main filler in linoleum is either wood pulp or a combination of wood pulp and cork, it is a relatively soft flooring substrate. Extra caution is necessary after the floor has been exposed to water because that can soften it even further.

Large objects or furniture can easily damage the floor if dragged. Floor pads that are too aggressive (High Pro Pad 7300, Black Stripping Pad 7200) if used, can cause widespread small scratching.

[Troubleshooting](#)



## Linoleum- Surface Scratching

Minor scratches-appear as slight surface discoloration or a surface roughness and can often be repaired using the following process:

1. Dust mop the floor.
2. Apply a solution of neutral cleaner on the affected area.
3. Scrub the damaged area of the floor 2-3 times using a swing machine or autoscrubber with a Scotch-Brite™ Purple Diamond Floor Pad Plus, the dark side facing down.
4. Remove all the solution from the floor and rinse with clean cool water.
5. Allow the floor to fully dry.

To prevent further minor scratching in the future, a coating may be applied to the floor in order to protect it.

**Major surface scratches or not repairable- Contact Flooring Manufacturer For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Bubbles or Warping

**Bubbling-** Bubbling in linoleum can occur from several different sources. If excessive moisture is present underneath the linoleum, most often migrating through the slab, it can cause adhesion issues. The moisture can cause the jute backing to separate from the linoleum itself or the backing can separate from the adhesive. Both instances will cause a bond failure that can lead to bubbles forming as sections release from the floor, mainly when in sheet form. Surface bubbling can also form in extreme cases of chemical damage. If high pH chemicals are used, especially over a longer period of time, it will cause the linoleum to break down and possibly create bubbles.

**Warping-** Warping will generally occur on the edge of tiles or at the seams of sheet products. This is usually due to moisture entering between seams and causing the linoleum to swell and warp.

**Bubbles/Warping-Contact  
Flooring Manufacturer For  
Guidance.**

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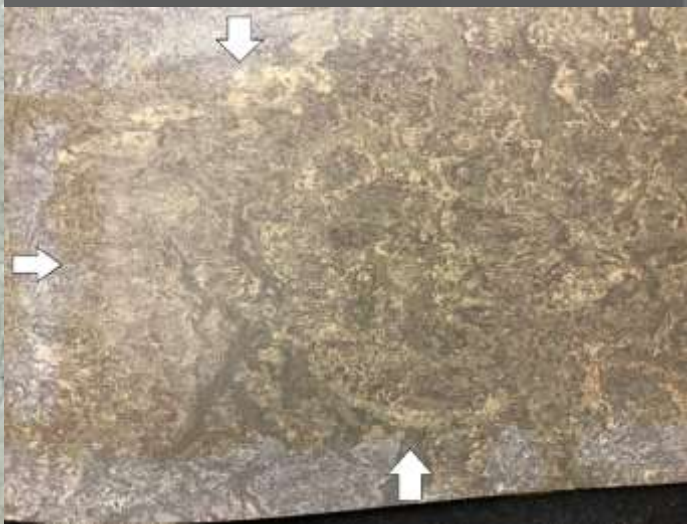
# FLOOR CARE GUIDE



Resilient Floors

## Linoleum- Chemical Damage

**Chemical Damage**- High pH chemicals (degreasers and strippers) will breakdown the linseed oil binder. This can occur after just one exposure and will become more likely after repeated exposure. Chemical damage can be observed in several different ways but most commonly as: color change/color fade, brittleness, surface cracking, softening, or bubbling.



**Chemical Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**



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# FLOOR CARE GUIDE



## Rubber- Sub-Floor Telegraphing

**Telegraphing:** A common problem in almost all resilient flooring. Telegraphing refers to objects or unevenness under the flooring that can be seen on the surface. Before the installation of the rubber; debris, left over adhesive, large trowel marks, unevenness in the sub-floor, or anything else present must be removed or leveled. If any of these are not removed, the rubber will conform to it and will be visible on the surface. This is especially true for rubber sheet because it is quite thin and sold in roll form, which will show unconformities more easily.

**Telegraphing-  
Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

**Cracks:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in the rubber losing its elasticity and causes a brittleness in the rubber that can then lead to small-scale or widespread cracking.

[Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Cracks

Note: If coated, must be chemically stripped prior to restoration.

### Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

If cracking is still present, contact flooring manufacturer for guidance.

**Cracking-Contact Flooring  
Manufacturer For Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Color Bleeding/Fading

**Color Bleeding/Fading:** Prolonged use of high pH (10.5 and above) cleaners, degreasers, and chemical strippers can begin to leach out the plasticizers on the topmost surface of the rubber. This results in either a color loss or color fading that will be very difficult to match if replacement is needed. Consistent exposure to sunlight can cause UV damage and can result in color fading.

[Troubleshooting](#)



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## FLOOR CARE GUIDE



Resilient Floors

# Rubber- Color Bleeding/Fading

**Note: If coated, must be chemically stripped prior to restoration.**

Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
  2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
  3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
  4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
  5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
  6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.
- If unsuccessful contact flooring manufacture for guidance. If caused by sunlight/UV damage, look into window film/treatments to prevent further damage.**

**Color Fade/Bleeding-Contact  
Flooring Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Indentations**- Rubber is most often seen in healthcare or sport facilities. Because of this, the floors will often be subject to heavy furniture and hospital beds/carts that place a relatively large amount of weight on feet/wheels that have a small surface area. Left over time, these indentations can cause the rubber to compress past what it can recover from and leave permanent indentations. Rolling wheels on hospital beds also have a chance to leave permanent indentation lines from being wheeled around.

**Preemptive work**- It is important to prevent these indentations before they occur to minimize possible damage. Use larger feet, larger wheels, or weight distributing pads on heavy furniture and hospital beds to even out the load.

**Surface damage**: Uncoated rubber can be susceptible to scratching from foot traffic or moving items.

[Troubleshooting](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Surface Damage/Indentations

**Note: If coated, must be chemically stripped prior to restoration.**

**For surface scratching try the Rubber Restoration Procedure:**

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

**For Surface Indentations-** Move the furniture and add weight distributing products. Give the indentations time to see if they rebound.

**Surface Damage-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

**Surface indentations-**  
**Contact Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



## Rubber- Stains

**Stains:** Rubber is not fully chemical resistant and is susceptible to oils, grease, and dyes. Depending on how deep the stain is, it can only be removed by abrading the depth of rubber that is holding the stain. If it has penetrated too deep, the stain may not be able to be removed.

[Troubleshooting](#)



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# FLOOR CARE GUIDE



Resilient Floors

## Rubber- Stains

Note: If coated, must be chemically stripped prior to restoration.

For staining try the Rubber Restoration Procedure:

1. Remove debris from the area to be restored.
2. Complete 6 passes wet scrubbing with Scotch-Brite™ Surface Preparation Pad with red backer pad and use neutral cleaner or water. Remove the liquid.
3. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Sienna Diamond Floor Pad and water only. Remove the liquid.
4. Repeat 6 passes wet scrubbing the entire area with the Scotch-Brite™ Purple Diamond Floor Pad and water only. Promptly remove the liquid. Rinse well and allow the floor to dry completely before moving on to step 4.
5. When the entire area has dried, complete 6 passes with a new Scotch-Brite™ Purple Diamond Floor Pad to restore gloss. This is a dry process.
6. Remove haze and complete the restoration process with 6 passes using the 3M™ White Super Polish Floor Pad 4100 dry.

Some stains may be chemically treated if the stain still persists, contact manufacturer for guidance.

Staining-Contact  
**Flooring  
Manufacturer For  
Guidance.**

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# FLOOR CARE GUIDE



Resilient Floors

## Preventative Maintenance

3M Solutions

- Preventing dirt from entering a facility is both the easiest and best way to keep a floor looking good and staying clean. This can be achieved by using a proper entrance matting system. Entrance matting is used to trap and hold the dirt, sand, and water that is brought in by foot traffic. This matting must be cleaned regularly to ensure that they do not fill and become inadequate.
- A properly designed 30 foot matting system combines outside scraping mats and interior soil/moisture mats to remove almost all soil brought in by foot traffic.

[Prevent](#)[Protect](#)[Maintain](#)[Restore](#)

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# FLOOR CARE GUIDE



Resilient Floors

## Protect

3M Solutions

- When installed, a vast majority of floors will greatly benefit from a topical coating/floor finish. This is primarily done to protect the floor from scratching, staining, and soiling which greatly extends its life. Floor coatings can also provide an easier surface to maintain cleanliness as well as a higher traction surface for safety.
- Acrylic polymer coatings/finish are currently the most common floor coating but many other types exist (urethane, epoxy). Each individual finish will have a percent (%) solids value attributed to it. This number will be the amount of solids/film that are left on the floor of one layer after everything else has evaporated. A general rule to protect the floor is to put enough layers down to add up to 100% solids left over. For example, a 20% solids floor finish would take 5 coats to give 100% coverage.

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# FLOOR CARE GUIDE



Resilient Floors

## Maintain

3M Solutions

- A comprehensive maintenance program is imperative for maximizing the life of a floor coating/finish.
- Daily Maintenance
  - Sweep/Dust Mop/Vacuum
  - Wet mop/autoscrubber with a neutral cleaner and appropriate pad
- Periodic Maintenance
  - Medium Scrub the floor with a general purpose cleaner and appropriate pad
  - Burnish with a high speed machine after cleaning to restore shine

**3M Floor  
Pad  
Selector**

Prevent

Protect

**Maintain**

Restore



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# FLOOR CARE GUIDE



Resilient Floors

## Restore

[3M Solutions](#)

- Scrubbing and Recoating
  - Over time, dirt will embed itself into the top layers of an acrylic finish and can only be removed by mechanically removing the layers themselves. An abrasive scrubbing pad is used with just water to abrade away those soiled top layers, leaving behind a clean surface to put down a couple new coats of finish. This process will extend the amount of time between having to fully chemically strip a floor.
- Chemically Stripping
  - When a floor finish has become fully soiled with dirt, the only option is to fully strip the floor of all layers of finish. By using a chemical stripper and an aggressive stripping pad, all soiled layers of floor finish can be removed. The bare floor is now ready to be cleaned and recoated with new layers of a finish up to at least the 100% solids coverage.

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## FLOOR CARE GUIDE



Resilient Floors

# VCT- Adhesion Bleeding Around Tiles

Troubleshooting for small areas:

- 1) Chemically strip any finish over a test area. Rinse well.
- 2) Attempt to clean the adhesive off the bare tile using mineral spirits.
- 3) If successful, clean the floor well and recoat with finish.

Or

- 3) If not successful or widespread areas, Contact flooring manufacturer for guidance.



Resilient Floors

## VCT- Dewetting of Finish

Dewetting is the process of a liquid interacting poorly with another solid surface or liquid. Usually a liquid will make a thin, even layer when coated on a surface. If there is a poor interaction between the liquid layer and the surface, it can cause the liquid to not evenly spread and bead into itself. When it comes to floor finish, this can be caused by a few things:

- Floor tiles are shipped from the manufacturer with a thin coating applied to each tile to prevent them from sticking to each other. This thin layer often also prevents floor finish from adhering as well. Large scale Dewetting is often caused by this.
- Small scale dewetting is often caused by contaminants on the tile surface such as oil, strippers, or degreasers.



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## FLOOR CARE GUIDE



Resilient Floors

# Common Coating Problems

Low Gloss/Poor Gloss

Streaking/Mop Lines/Poor Leveling

Finish Discolored/Yellowing/Sticky Floors

Powdering

Scuffing/Black Marking

Fish Eyes



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## FLOOR CARE GUIDE



Resilient Floors

# VCT- Discoloration/Surface Stains

Steps:

- 1) Chemically strip stained section and rinse floor
- 2) Inspect tiles to see if the stain is present or was removed with coating
- 3) If removed, recoat
- 4) If not removed, scrub tile with abrasive scrubbing pad to try and remove staining
- 5) If removed, recoat
- 6) If stain is still present, contact your flooring manufacturer for guidance.

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## FLOOR CARE GUIDE



Resilient Floors

# VCT- Dewetting of Finish

Remediation:

- 1) Fully chemically strip the affected area, and rinse appropriately
- 2) Scrub entire floor with SPP or Blue 5300 pad
- 3) Rinse Floor and let sufficiently dry
- 4) Re-apply floor finish to the recommended coats



Resilient Floors

## Low Gloss/Poor Gloss

### Potential Causes

- Finish applied too thick.
- Not enough top coats applied.
- Additional coats applied too soon.
- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Dirty mop and/or bucket.
- Ammonia or bleach used in damp mopping.
- Fan used to dry finish.
- Extremes in temperature and humidity.

### Possible Solutions

- Wring mop head more to apply light-medium coats. Switch to flat mop.
- Scrub, rinse, recoat.
- Wait for each coat to dry completely.
- Floor needs to be completely cleaned (stripped) and rinsed.
- Use clean finish only mop, lined bucket. Strip, rinse well and apply new finish.
- Use only cleaners that are designed for the floor.
- Make sure fan is not blowing directly at floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.



Resilient Floors

# Streaking/Mop Lines/Poor Leveling

## Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).
- Finish applied too thick.
- Dirty mop and/or bucket.
- Additional coats applied too soon.
- Fan used to dry finish.
- Extremes in temperature and humidity.
- Finish was old, contaminated, exposed to temperature extremes.

## Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.
- Wring mop head more to apply light-medium coats.
- Use clean finish only mop, lined bucket. Use separate mop for stripping and applying finish.
- Wring mop head more to apply light-medium coats. No more than 3-4 coats a day.
- Make sure fan is not blowing directly at the floor finish.
- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.
- Examine finish (partially used, storage conditions, etc.). Strip, rinse well and apply new finish.





Resilient Floors

# Finish Discolored/Yellowing/ Sticky Floors

## Potential Causes

- Solvent based cleaner.

- Damp mopped with dirty water and/or mops.

- Wrong cleaner, too much cleaner, or improperly diluted cleaner used.

- Build up of disinfectant cleaner.

- Extremes in temperature and humidity.

- Additional coats applied too soon.

- Too many coats applied in 24 hours

## Possible Solutions

- Switch to water based neutral cleaner like 3H/3A.

- Use only clean mops and buckets. Change water frequently.

- Use only cleaners that are designed for the floor according to manufacturing specifications.

- Periodically clean floor with neutral cleaner to help remove any buildup.

- Wait for each coat to dry completely, 25-35 minutes. No more than 3 to 4 coats a day.

- Ideal is 70°F & 50%RH. Make sure HVAC is on. Use fans carefully.

- Reduct number of coats applied

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# FLOOR CARE GUIDE



Resilient Floors

## Powdering

| Potential Causes  | Possible Solutions  |
|---|---|
| <ul style="list-style-type: none"><li>• Extremes in temperature and humidity (low humidity in particular.</li></ul> | <ul style="list-style-type: none"><li>• Ideal is 70°F &amp; 50% RH. Make sure HVAC is on. Use fans carefully.</li></ul> |
| <ul style="list-style-type: none"><li>• Old or very porous floor.</li></ul>   | <ul style="list-style-type: none"><li>• Use of a sealer is recommended.</li></ul>                                       |
| <ul style="list-style-type: none"><li>• Finish applied to a freshly stripped floor.</li></ul>                       | <ul style="list-style-type: none"><li>• Allow adequate time to dry a stripped floor.</li></ul>                          |



**Resilient Floors**

## Scuffing/Black Marking

### Potential Causes

- Coats are too heavy inhibiting proper curing.

- Applying too many coats in 24 hour period.

- Insufficient cleaning program in place.

### Possible Solutions

- Wring mop head more to apply light-medium coats.

- No more than 3-4 coats a day.

- Change to a better suited pad or chemical for removal.

## Fish Eyes

### Potential Causes

- Floor contaminated and/or not properly cleaned and rinsed (greasy floor, soap film).

### Possible Solutions

- Floor needed to be completely cleaned (stripped) and rinsed.

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## FLOOR CARE GUIDE



**Contact an Expert**

**800-852-9722**

**Chat**

**Send a Message**



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# FLOOR CARE GUIDE



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