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Technical Bulletin

3M™ Resilient Floor Protection System (Next Generation)

Description

The 3M™ Resilient Floor Protection System is a high performance protective floor coating and maintenance program for vinyl tile and vinyl sheet flooring that utilizes proprietary technologies to produce a hard surface that is resistant to scratches, stains, and black marks.

Special Features

- Zinc free
- Low odor
- Superior gloss retention*
- Superior black mark resistance and easier black mark removal*
- Superior soil resistance*
- Higher static coefficient of friction (SCOF) as measured by ASTM-D2047*
- Builds initial hardness 40% faster than leading competing traditional acrylic floor finishes
- 4 times more durable than leading competing traditional acrylic floor finishes**
- Environmentally preferable***
- Superior hand sanitizer resistance****
- National Floor Safety Institute (NFSI) certified as providing “high-traction” 

(*) When compared to leading competing traditional acrylic floor finishes

(**) Based on coating abrasion data (seven day cured) using Schieffer machine.

(***) Environmentally preferable, formulated without: zinc and other heavy metals, fluorochemicals, NPE, APE. Low odor when compared to leading competing traditional acrylic floor finishes, low VOC (less than 0.1%). Scotchgard™ Resilient Floor Protector can also help reduce chemical usage by reducing the frequency of stripping operations when used as a two coat protector system.

(****) When compared to leading competing traditional acrylic floor finishes, based on 8 hour exposure

Applications

- Retail
- Education
- Health Care
- Office

General Use Directions

Refer to SDS 32-9595-3 for personal protective equipment (PPE) recommendations.

Recommended Installation Tools/Equipment:

1. Autoscrubber or mop and bucket
2. High speed burnisher
3. Scotch-Brite™ Surface Preparation Pad
4. Scotch-Brite™ Purple Diamond Floor Pad Plus
5. 3M™ Easy Shine Applicator
6. Scotchgard™ Floor Protector Applicator Pad, Blue
7. 3M™ Easy Trap Duster
8. Scotchgard™ Resilient Floor Protector
9. Applicable PPE



VCT (Vinyl Composition Tile) Floor Preparation:

NOTE: Scotchgard™ Resilient Floor Protector is not intended for use on asbestos containing flooring materials. Ensure that the flooring you are working on does not contain asbestos.

1. For best results it is recommended that the floor be fully stripped prior to installation of the 3M™ Resilient Floor Protection System.
2. If the floor has finish applied to it, strip the floor using an appropriate 3M™ floor stripper and stripping pad. This includes any factory finish present on new floors. Be careful to remove all floor finish as any remaining finish has potential to be visible after applying Scotchgard™ Resilient Floor Protector.
3. If stains are present they should be thoroughly cleaned or tiles replaced. Any staining or other damage to flooring cannot be removed or hidden by Scotchgard™ Resilient Floor Protector.
4. Always rinse the floor after stripping. Rinse until a hand run over dry floor does not have any white residue on it. Failure to properly rinse a floor can cause adhesion failure, discoloration, hazing, or other failure of Scotchgard™ Resilient Floor Protector.
5. It is recommended to scrub the bare floor using a Scotch-Brite™ Surface Preparation Pad and rinse to remove any residue followed by dusting with 3M™ Easy Trap Duster.
6. Optionally burnish entire flooring area using a Scotch-Brite™ Purple Diamond Floor Pad Plus using a minimum of two passes. **A pass is once over a tile, so down and back on the same line would be twice over a tile and count as two passes.** Do not pre-burnish floors that are uneven or textured.
7. Dust floor with 3M™ Easy Trap Duster to ensure all dust, hair, grit, and debris has been removed.

Sheet Vinyl, Linoleum & Luxury Vinyl Tile Preparation

1. For best results it is recommended that the floor be fully stripped prior to installation of the 3M™ Resilient Floor Protection System.
2. If the floor has finish applied to it, strip the floor using an appropriate 3M™ floor stripper and stripping pad. This includes any factory finish present on new floors. Be careful to remove all floor finish as any remaining finish has potential to be visible after applying Scotchgard™ Resilient Floor Protector. **NOTE: DO NOT use a 3M™ High Productivity Pad 7300 or 3M™ Black Stripper Pad 7200 pad when stripping Linoleum, Luxury Vinyl Tile or sheet vinyl floors as scratching or other damage may occur. Use only non abrasive pads or those recommended by the flooring manufacturer.**
3. If stains are present they should be thoroughly cleaned or flooring replaced. Any staining or other damage to flooring cannot be removed or hidden by Scotchgard™ Resilient Floor Protector.
4. Always rinse the floor after stripping. Rinse until a hand run over dry floor does not have any white residue on it. Failure to properly rinse a floor can cause adhesion failure, discoloration, hazing, or other failure of Scotchgard™ Resilient Floor Protector.
5. For best adhesion it is recommended that new sheet vinyl, linoleum, solid vinyl tile, and luxury vinyl tile flooring have a single coat of Scotchgard™ LM-25 applied prior installation of Scotchgard™ Resilient Floor Protector.

Application Procedure (2-Coat Protector)

1. Wet and tightly wring out the applicator pad and apply to 3M™ Easy Shine Applicator.
2. Apply an even coating of Scotchgard™ Resilient Floor Protector to floor. **Ideal coverage rate is 2000 sf/gal.**
3. When coating is complete allow time to fully dry. The more porous the flooring, the longer it will take for product that is soaked into the floor to fully dry.
4. Wait a minimum of 15 minutes after floor is dry to the touch to move on to next step.
5. Apply a second coat of Scotchgard™ Resilient Floor Protector.
6. Protection of the floor is achieved at two coats. More coats may be added if desired for higher gloss (see below.)
7. For high traffic areas (such as entryways) an optional 3rd coat may be applied to provide additional protection.
8. Allow coating to dry before opening to traffic.



Application Procedure (High Gloss)

1. Wet and tightly wring out the applicator pad and apply to 3M™ Easy Shine Applicator.
2. Apply an even coating of Scotchgard™ Resilient Floor Protector to floor. **Ideal coverage rate is 2000 sf/gal.**
3. When coating is complete allow time to fully dry. The more porous the flooring, the longer it will take for product that is soaked into the floor to fully dry.
4. Wait a minimum of 15 minutes after floor is dry to the touch to move on to next step.
5. Apply another coat of Scotchgard™ Resilient Floor Protector.
6. Repeat steps 4 and 5 until desired gloss is obtained. Note: only 4 coats should be applied in a 24 hour period. If more than 4 coats are desired, wait 24 hours to apply additional coats.
7. Allow coating to dry before opening to traffic.

Application Procedure (Top Coat)

1. **If Scotchgard™ Resilient Floor Protector is to be used as a top-coat over existing finish the floor MUST be scrubbed using water and a Scotch-Brite™ Surface Preparation Pad and then rinsed prior to coating.**
2. Wet and tightly wring out the applicator pad and apply to 3M™ Easy Shine Applicator
3. Apply an even coating of Scotchgard™ Resilient Floor Protector to floor. **Ideal coverage rate is 2000 sf/gal.**
4. When coating is complete allow time to fully dry.
5. Wait a minimum of 15 minutes after floor is dry to the touch to move on to next step.
6. Apply another coat of Scotchgard™ Resilient Floor Protector.
7. Allow coating to dry before opening to traffic.

Daily Maintenance:

1. Dust mop with 3M™ Doodleduster or 3M™ Easy Trap Duster.
2. Damp mop or auto scrub daily using a 3M™ 3H Neutral Cleaner and 3M™ Red Buffer Pad 5100. For best appearance an auto scrub procedure is recommended. For heavy soiling areas the 3M™ TopLine Autoscrubber Pad 5000 may be used. Areas where aggressive cleaning pads are used will require burnishing after cleaning to restore optimum gloss. **Note: If disinfection is required 3M™ Neutral Quat Disinfectant Cleaner Concentrate 23H may be used. If a peroxide cleaner is desired 3M™ Peroxide Cleaner Concentrate 34H may be used.**
3. On days when burnishing will be performed, it is recommended to use the 3M™ TopLine Autoscrubber Pad 5000 for increased cleaning.
4. Flooring should be periodically burnished to maintain gloss using a 3M™ Tan Burnish Pad 3400. *(typically 1-2 times per month for low traffic areas, 4-5 times per month for mid level traffic areas, and 3-4 times per week for high traffic areas)*

Note: Do not use any products containing 2-butoxyethanol (butyl), bleach, amines, solvents, citrus (d-limonene) or high or low PH cleaners as this may damage the coating surface.

Periodic Maintenance:

1. For optimal results, flooring that has been scratched or worn may be periodically burnished with a Scotch-Brite™ Purple Diamond Floor Pad Plus followed by a 3M™ Tan Burnish Pad 3400.
2. Flooring should be periodically scrubbed with a 3M™ Blue Cleaner Pad 5300 followed by burnishing using a 3M™ Tan Burnish Pad 3400.

Scrub and Recoat:

If traffic lanes no longer respond to burnishing or if marking, discoloration, or excessive soiling is observed, Scotchgard™ Resilient Floor Protector may be restored using a scrub and refresh process. *(typically 1-2 times per year for low traffic areas, 2-3 times per year for mid level traffic areas, and 3+ times per year for high traffic areas)*

1. Scrub entire floor using 1-2 passes of a low speed floor machine or autoscrubber and a Scotch-Brite™ Surface Preparation Pad.
2. Optionally, burnish using a 3M™ Tan Burnish Pad 3400.
3. Apply a single coat of Scotchgard™ Resilient Floor Protector.
4. Allow coating to dry before opening to traffic.

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