

3M Scotchgard™ Stone Floor Protector

Technical Data Sheet

September 2011

Description:

Scotchgard™ Stone Floor Protector is a high performance floor surface hardener and protective clear coat for concrete, marble, terrazzo, and other porous stone surfaces. It produces a glossy, hard, dust repellent and watertight surface.

Special Features:

- Glossy, hard, watertight coating that reduces dust formation.
- Hardens and seals concrete, marble, terrazzo, and other porous stone surfaces.
- Excellent stain resistance with Scotchgard technology
- Easy to repair or recoat; no stripping required.
- Scratches on surface can be burnished away with Scotch-Brite™ Purple Diamond Floor Pad.
- Meets CARB 2010 standards for VOCs.

Applications:

- Scotchgard™ Stone Floor Protector may be used on concrete, marble, terrazzo, and other porous stone surfaces.
- Scotchgard™ Stone Floor Protector is NOT recommended for use on flooring that is:
 - Floors with extreme lippage (uneven tiles).
 - Accounts that do not own a burnisher and are unwilling to burnish.
 - Granite.
 - Black marble.
 - Ceramic (including porcelain, quarry, Mexican, etc).
 - Textured stone (such as slate).
 - Installs where air temperature is below 10 degrees Centigrade.

Caution should be used when using Scotchgard™ Stone Floor Protector on flooring that is:

- Stained Concrete (see stained concrete floor preparation section).
- Travertine (increased dry time).
- Crystallized marble (must remove crystallized layer using 3M™ Trizact™ Diamond HX discs first).
- Grout lines greater than ¼ inch (often sanded grout).

Packaging:

- 3.78 Liter Bag
- 2 bags/case

General Use Directions:

Recommended Tools/Equipment:

1. Mop and bucket
2. Swing machine or auto scrubber
3. High speed burnisher (min 1500 rpm)
4. Wet vac
5. 3M™ Red and Blue Trizact™ Diamond HX discs attached to 3M red or white floor pads
6. 3M™ SPP (Surface Preparation Pad)
7. Scotch-Brite™ Sienna Diamond Floor Pad Plus (Note: If 3M™ Trizact™ Diamond HX discs are being used, there is no need to use Scotch-Brite™ Sienna Pads)
8. Scotch-Brite™ Purple Diamond Floor Pad Plus
9. 3M™ White Super Polish Pad 4100
10. 3M™ Easy Shine Applicator
11. Scotchgard™ Floor Protector Applicator Pad
12. 3M™ Easy Trap Duster
13. Scotchgard™ Stone Floor Protector
14. Applicable PPE

Floor Preparation:

Marble, Terrazzo, and Un-Dyed Concrete Floor Preparation:

1. Strip all old finish from floor using a 3M™ floor stripping chemical and stripping pad.
2. After stripping, remove any finish left on the floor with a 3M Surface Preparation Pad (SPP).
3. If the floor is uncoated, clean thoroughly using a 3M™ Blue Cleaner Pad 5300 (or equivalent) and thoroughly rinse floor with water.
4. Use Auto scrubber (water on) or swing machine (wet floor) to grind floor with red colored 3M™ Trizact™ Diamond HX discs (more aggressive) and complete a minimum of 6 passes. After six passes use the squeegee to remove the slurry. Ensure that the floor has a consistent appearance (scratches and pitting have been removed). If floor does not have a consistent appearance, complete another six passes.
5. If using a swing machine, wet vac and mop between using red and blue 3M™ Trizact™ Diamond HX discs. This is to ensure that any abrasive that may have come loose during the previous step is removed from the floor and does not remain to cause scratching during the next process.
6. Use Auto scrubber (water on) or swing machine (wet floor) to grind floor with blue 3M™ Trizact™ Diamond HX discs and complete a minimum of 6 passes use the squeegee to remove the slurry. Ensure that the floor has a consistent appearance (scratches and pitting have been removed). If floor does not have a consistent

- appearance, complete another six passes.
7. Rinse floor thoroughly using clean water and mop or for Auto Scrubber use red pad with water on and squeegee down to remove any residue.
 8. Ensure the floor is thoroughly dry then high speed burnish the floor with a Scotch-Brite™ Purple Diamond Floor Pad Plus using two or three passes. No moisture should be used during this process. Note: Dark side of pad must face the floor.
 9. If shadowing is visible, burnish entire flooring area using a 3M™ White Super Polish Pad 4100 using two passes. NOTE: If a 3M™ White Super Polish Pad 4100 is not available a 3M™ Tan Burnish Pad 3400 or 3M™ Eraser Burnish Pad 3600 may be used.
 10. Refer to application procedure.

Dyed Concrete Floor Preparation:

1. Strip all old finish from floor using a 3M™ floor stripping chemical and 3M™ stripping pad.
2. If the floor is uncoated, clean thoroughly using a black scrubbing pad and thoroughly rinse floor with water.
3. Allow floor to dry thoroughly.
4. Mask off any surfaces that are not intended to be coated. i.e.: metal, glass, painted surfaces, fabric.
5. Burnish the bare floor using a Scotch-Brite™ Sienna Diamond Floor Pad Plus.
6. Burnish the bare floor with the Scotch-Brite™ Purple Diamond Floor Pad Plus.

Application Procedure

1. Dust floor with 3M™ Easy Trap Duster to ensure all dust, hair, grit, and debris has been removed.
2. Using the 3M™ Easy Shine Applicator, saturate the Floor Protector Applicator Pad with Scotchgard™ Stone Floor Protector then apply a pool of Scotchgard™ Stone Floor

Protector to the floor. When applicator has been saturated wipe area clear of product and note the color of the flooring where the pool was laid. The darkness of this area is the same darkness the rest of the floor should turn during application of the first coat.

3. Apply a thin even coating of product to floor. Make sure that all drips or heavy areas are addressed while applying by immediately feathering over the area just been coated. Proper coating thickness should NOT have any milky appearance to it.
4. When coating is complete allow time to fully dry. The more porous the flooring the longer it will take for product soaked into the floor to fully dry. It will be dry to walk on before it is ready to burnish. Wait a minimum of 15 minutes after floor is dry to the touch to move on to next step.
5. Burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus. 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.
6. Burnish for a minimum of 6 passes using a 3M™ White Super Polish Pad 4100.
7. Dust with 3M™ Easy Trap Duster to remove dust and pad debris. Use your hand to check that dust has been removed.
8. Apply second thin even coat of Scotchgard™ Stone Floor Protector.
9. Allow coating to dry and burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus.
10. Burnish for a minimum of 6 passes using a 3M™ White Super Polish Pad 4100. NOTE: If a 3M™ White Super Polish Pad 4100 is not available a 3M™ Tan Burnish Pad 3400 or 3M™ Eraser Burnish Pad 3600 may be used.

11. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.

Note:

- It is highly recommended to burnish the floor with Scotch-Brite™ Purple Diamond Floor Pad (2-3 passes) in two sessions, within the first week after Scotchgard™ application.
- If labor time is limited, steps 6 and 10 may be eliminated. Elimination of these steps will result in a lower gloss (about 5-15 points on a gloss meter) than the full recommended process.
- Avoid standing water on the finished floor for 36 hours after application.
- Coverage is typically 250-300 sq. meter/bag.
- Always test in an inconspicuous area to verify appropriate application.
- 3M™ Trizact™ Diamond HX discs should be applied to a red, natural blend or white pad only. Some red pads made by companies other than 3M have been known to bleed color. This can turn light colored grout lines pink. If the origin of the pad is unknown, it is recommended that a white or natural blend pad be used.

Cleaning:

1. Dust mop with 3M™ Doodleduster™ Cloth or 3M™ Easy Trap Duster.
2. Damp mop using 3M™ Neutral Cleaner and a flat mop or string mop.
3. Auto scrub as necessary using a 3M™ Neutral Cleaner and 3M™ Red Buffer Pad 5100 on the auto scrubber. Do not use acidic cleaners with a pH<6. For more aggressive cleaning, use 3M™ TopLine Autoscrubber Pad 5000.
4. Do NOT use any cleaner that contains citrus (d-limonene) or 2-butoxyethanol (butyl cellulose)

Ongoing Maintenance:

1. Dust floor prior to auto scrubbing using 3M™ Easy Trap Duster under fringe mop.
2. Auto scrub floor daily using 3M™ Blue Cleaner 5300 Pad or 3M™ Red Buffer 5100 Pad.
3. When appearance of the floor begins to dull, burnish the floor using the Scotch-Brite™ Purple Diamond Floor Pad (typically two times per month for low traffic areas and 1-2 time per week for high traffic areas).

Recoating: (typically once or twice a year)

1. Scrub traffic areas or the entire floor as required using 3M™ Neutral Cleaner with 3M™ Blue Cleaner Pad 5300 and follow with water rinse.
2. Dust floor with 3M™ Easy Trap Duster.
3. Recoat the scrubbed area with 1 coat of Scotchgard™ Stone Floor Protector.
4. After drying, burnish the floor with the Scotch-Brite™ Purple Diamond Floor Pad Plus using 6 passes.

Removal of Scotchgard™ Stone Floor Protector:

Scotchgard™ Stone Floor Protector may be removed

using a 3M™ floor stripping chemical and 3M™ stripping pad.

Product Specifications:

(Typical Values)

1. pH: 11 - 12
2. Flashpoint: >200°F
3. Solubility in water: Complete
4. Slip Resistance: Meets or exceeds ASTM-D-2047-4 coefficient of friction of 0.5 on James Static Friction tester
5. Viscosity: <8 centipoise
6. Fragrance: Acrylic odor
7. Appearance: Milky-white liquid
8. Specific gravity: 1.09
9. Percent solids: 13%

Note:

Refer to product Material Safety Data Sheet (MSDS: 28-4142-7) for specific health hazard, first aid and precautionary information.

WARNING Given the variety of factors uniquely within user's knowledge and control that can affect the use and performance of a 3M™ floor pad, user is ultimately responsible for determining whether the floor pad is suitable for user's flooring and method of application. Some floors may release material (such as dust) that could be hazardous to the user or bystanders. Eye, skin and/or respiratory personal protection equipment may be appropriate to reduce the risks associated with exposure to such airborne material.

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Important Notice to User:

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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