

Scotchgard™

Stone Floor Protector

Technical Data

March 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.
- Easy to repair or recoat; no stripping required
- Scratches on surface can be burnished away with Scotch-Brite™ Purple Diamond Floor Pad Plus
- 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 50 degrees Fahrenheit

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:

3.785 Liter Bag
2/case

General Use Directions:

Recommended Tools/Equipment:

1. Mop and bucket
2. Swing machine or autoscrubber
3. High speed burnisher
4. Wet vac
5. 3M™ Trizact™ Diamond HX disc
6. Scotch-Brite™ Sienna Diamond Floor Pad Plus
7. 3M™ White Super Polish Pad 4100
8. 3M™ Easy Shine Applicator
9. Scotchgard™ Floor Protector Applicator Pad, Blue
10. 3M™ Easy Trap Duster
11. Scotchgard™ Stone Floor Protector
12. Applicable PPE

Marble, Terrazzo, and Un-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 3M™ Blue Cleaner Pad 5300 and thoroughly rinse floor with water.
3. Allow floor to dry thoroughly.
4. Wet floor and scrub with red colored 3M™ Trizact™ Diamond HX discs (more aggressive) and complete a minimum of 6 passes. After six passes use the floor squeegee to move away the slurry and

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. Always 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. Wet floor and scrub with blue 3M™ Trizact™ Diamond HX discs and complete a minimum of 6 passes. After six passes use the floor squeegee to move away the slurry and 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. Wet vac and mop to remove all slurry and dust. **NOTE: Any dust not removed at this time will be spread into the air during burnishing and could set off fire alarms or result in further need for cleaning of surrounding areas.**
8. High speed burnish the floor with a Scotch-Brite™ Purple Diamond Floor Pad Plus using a minimum of three passes. No moisture should be used during this process.
9. Clean expansion joints (terrazzo) using neutral cleaner and red pad with swing machine to eliminate metal dust prior to applying Scotchgard™ Stone Floor Protector.



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. 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.**
2. Dust floor with 3M™ Easy Trap Duster to ensure all dust, hair, grit, and debris has been removed.
3. Apply a pool of Scotchgard™ Stone Floor Protector to the floor and saturate applicator head. 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.
4. Apply a thin even coating of product to floor. Make sure that all drips or heavy areas are addressed while applying. **Proper coating thickness should NOT have any milky appearance to it.** Treat the application almost like you are applying product and then trying to wipe it off.
5. 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.

6. 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.**
7. Burnish for a minimum of 6 passes using a 3M™ White Super Polish Pad 4100.
8. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.
9. Apply second thin even coat of Scotchgard™ Stone Floor Protector.
10. Allow coating to dry and burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus.
11. 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.**
12. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.

Note:

- **If labor time is limited, steps 1 and 7 may be eliminated. Elimination of these steps will result in a lower gloss (about 5-10 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 2500-3000 sq. ft./gallon.**
- **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 cellusolve)

Burnishing:

1. Flooring should be periodically burnished using a Scotch-Brite™ Purple Diamond Floor Pad to maintain gloss.
2. When traffic lanes are no longer returned to gloss by burnishing, an additional application of Scotchgard™ Stone Floor Protector should be applied.

Black Mark Removal:

Listed in order of increasing difficulty in removal. Try least aggressive first.

1. Burnish with 3M™ Eraser Burnish Pad 3600.
2. Auto scrub with Scotch-Brite™ Purple Diamond Floor Pad Plus and water/neutral cleaner.
3. Auto scrub with Scotch-Brite™ Purple Diamond Floor Pad Plus and water/3M™ 3-in-1 Floor Cleaner.
4. Pre-treat difficult marks using spray bottle of water/3M™ 3-in-1 Floor Cleaner then auto scrub with Scotch-Brite™ Purple Diamond Floor Pad Plus and water/3M™ 3-in-1 Floor Cleaner.
5. Spot treatment with Scotch-Brite™ Sienna Diamond Floor Pad Plus on burnisher. Then burnish area with Scotch-Brite™ Purple Diamond Floor Pad Plus to restore gloss.



Recoating:

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

Removal of Scotchgard™ Stone**Floor Protector:**

1. 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.

34-8704-5260-3

3M Branch Sales Offices

ANCHORAGE

11151 Calaska Circle
Anchorage, AK 99515
Telephone: 907/522-5200
Facsimile: 907/522-1645

HONOLULU

4443 Malaai Street
Honolulu, HI 96818
Mail to: P.O. Box 30048
Honolulu, HI 96820
Telephone: 808/422-2721
Facsimile: 808/422-9557

CONTINENTAL UNITED STATES

Customer Service Department
3M Center Building 223-5S-07
St. Paul, MN 55144-1000
Order Entry: 1-800-852-9722
Facsimile: 1-800-447-0408

CANADA

1840 Oxford Street East
London, Ontario, Canada
N5V 3G2
Mail to: P.O. Box 5757
London, Ontario, Canada
N6A 4T1
Telephone: 800/364-3577
Facsimile: 800/479-4453

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Building and Commercial Services Division

St. Paul, MN 55144-1000
1-800-852-9722
www.3M.com/commcare

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