

Scotchgard™ Vinyl Floor Protector

Technical Data

February 2011

Description:

Scotchgard™ Vinyl Floor Protector is a high performance floor finish for vinyl sheet and vinyl tile flooring that utilizes nano-sized inorganic particles that upon curing, produces a hard surface that is resistant to scratches, stains, and scuff marks.

Special Features:

- Glossy, hard surface is resistant to soiling
- Suitable for multiple substrates: vinyl, VCT, rubber, linoleum, and asphalt tile floors
- Easy to reapply; no stripping required
- Scratches on surface can be burnished away with Scotch-Brite™ Purple Diamond Floor Pad Plus

Applications:

Scotchgard™ Vinyl Floor Protector may be used on most VCT floor surfaces. Scotchgard™ Vinyl Floor Protector is not intended for use on asbestos based flooring materials. Ensure that the flooring you are working on is not asbestos based.

Scotchgard™ Vinyl Floor Protector may also be used on sheet vinyl and rubber flooring. Less product will be required than on VCT flooring due to the non-porous nature of sheet goods and rubber. Care should be taken to ensure that applications are put on thinly.

Scotchgard™ Vinyl Floor Protector is **NOT recommended** for use on flooring that is:

- Badly damaged (cupped, cracked, lipped)
- Accounts that do not own a burnisher and are unwilling to burnish
- Unavoidable moisture areas (swimming pool areas, ski lodges, etc)
- Cork flooring

- Asbestos based floor tiles
- Installs where air temperature is below 50 degrees Fahrenheit

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

- Linoleum/Marmoleum (ensure proper stripping chemicals)
- Textured floors (increased dry and burnish times)

Packaging:

3.785 Liter bag
2/case

General Use Directions:

Recommended Tools/Equipment:

- Mop and bucket
- High speed burnisher
- Scotch-Brite™ Sienna Diamond Floor Pad Plus
- Scotch-Brite™ Purple Diamond Floor Pad Plus
- 3M™ White Super Polish Pad 4100
- 3M™ Easy Shine Applicator
- Scotchgard™ Floor Protector Applicator Pad, Blue
- 3M™ Easy Trap Duster
- Scotchgard™ Vinyl Floor Protector
- Applicable PPE

VCT Floor Preparation:

- If the floor has finish applied to it strip the floor using 3M™ Speed Stripper Concentrate 6H or 3M™ Floor Stripper LO Concentrate 22. 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™ Vinyl Floor Protector.
- Floor should be clean and free of all grit (sand, metal particles, etc) prior to beginning. 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™ Vinyl Floor Protector.

- 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™ Vinyl Floor Protector.

VCT Application Procedure

1. Burnish entire flooring area using a Scotch-Brite™ Sienna Diamond Floor Pad Plus using 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.**
2. Burnish entire flooring area using a Scotch-Brite™ Purple Diamond Floor Pad Plus using two passes.
3. 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.**
4. Dust floor with 3M™ Easy Trap Duster to ensure all dust, hair, grit, and debris has been removed.
5. Apply a pool of product to the floor and saturate applicator head.
6. 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.



7. 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.
8. Burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus.
9. Burnish for a minimum of 6 passes using a 3M™ White Super Polish Pad 4100.
10. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.
11. Apply second thin even coat of Scotchgard™ Vinyl Floor Protector.
12. Allow coating to dry and burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus.
13. 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.**
14. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.
15. Scotchgard™ Vinyl Floor Protector will benefit over time from burnishing. Efforts should be made to burnish the floor at least 4 times within the first 30 days of install to provide the best performance. This additional burnishing will assist in long term durability and soil resistance.

Note:

- Floors that are not able to be burnished over the first 30 days after install risk increased soil loading.
- If labor time is limited, steps 1, 3, and 9 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.
- For newly installed floors step 1 is not required.
- Avoid standing water on the finished floor for 36 hours after application.
- Coverage is typically 3000 sq. ft./gallon.

Sheet Vinyl & Rubber Floor Preparation

If the floor has finish applied to it, strip the floor using 3M™ Speed Stripper Concentrate 6H or 3M™ Floor Stripper LO Concentrate 22. This includes any factory finish applied to new floors. Be careful to remove all floor finish as any remaining finish has potential to be visible after applying Scotchgard™ Vinyl Floor Protector. **DO NOT use a High-Pro pad when stripping rubber or sheet vinyl floors as scratching or other damage may occur. Use only non abrasive pads or those recommended by the flooring manufacturer.**

Floor should be clean and free of all grit (sand, metal particles, etc) prior to beginning. 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™ Vinyl Floor Protector.

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™ Vinyl Floor Protector.

Sheet Vinyl and Rubber Application Procedure

1. Prep the floor by burnishing with a 3M™ White Super Polish Pad 4100 or 3M™ Tan Burnish Pad 3400. **Do not use a diamond pad to pre-burnish the floor. Using a diamond pad can scratch or damage the flooring.**
2. Dust floor with 3M™ Easy Trap Duster to ensure all dust, hair, grit, and debris has been removed.
3. Apply a pool of product to the floor and saturate applicator head.
4. Apply a thin layer 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 are trying to wipe it off. Sheet vinyl and rubber flooring are non porous and will not require much product to coat.

5. When coating is complete, allow adequate time 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.
7. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.
8. Burnish for a minimum of 6 passes using a 3M™ White Super Polish Pad 4100.
9. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.
10. Apply second thin coat of Scotchgard™ Vinyl Floor Protector.
11. Allow coating to dry and burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus.
12. Burnish for a minimum of 6 passes using a 3M™ White Super Polish Pad 4100.
13. Dust with 3M™ Easy Trap Duster to remove dust and pad debris.
14. Scotchgard™ Vinyl Floor Protector will benefit over time from burnishing. Efforts should be made to burnish the floor at least 4 times within the first 30 days of install to provide the best performance. This additional burnishing will assist in long term durability and soil resistance.

Note:

- Floors that are not able to be burnished over the first 30 days after install risk increased soil loading.
- Avoid standing water on the finished floor for 36 hours after application.
- Coverage is typically 3000 sq. ft./gallon.



Ongoing Maintenance:

- Dust mop with 3M™ Doodleduster Cloth or 3M™ Easy Trap Duster.
- Damp mop or auto scrub as necessary using a 3M™ Neutral Cleaner and 3M™ Red Buffer Pad 5100. Do not use acidic cleaners. For more aggressive cleaning, use 3M™ Topline Autoscrubber Pad 5000. For best appearance, an auto scrub procedure is recommended.
- Flooring should be periodically burnished (typically 1-2 times per month) using a Scotch-Brite™ Purple Diamond Floor Pad Plus to maintain gloss. When traffic lanes are no longer returned to gloss by burnishing an application of Scotchgard™ Vinyl Floor Protector should be applied.
- Recoat traffic areas or entire floor as necessary with Scotchgard™ Vinyl Floor Protector using the 3M™ Easy Shine Applicator System. Be sure the floor is clean and free of marks before recoating typically one to two times per year).

Note:

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

Restoration:

If marking, discoloration, or excessive soiling is observed, Scotchgard™ Vinyl Floor Protector may be restored using the following process.

- Scrub entire floor using a low speed machine and a 3M™ Blue Cleaner Pad 5300.
- Burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus.
- If desired, apply a single coat of Scotchgard™ Vinyl Floor Protector.
- Burnish for a minimum of 6 passes using a Scotch-Brite™ Purple Diamond Floor Pad Plus.

Repair:

Scotchgard™ Vinyl Floor Protector is easy to repair. Use repair process only for severely damaged areas.

NOTE: It is best to do a repair area along seams in the tiles (i.e. avoid doing partial tiles).

- Tape off the damaged area and use floor stripper to remove the coating.
- Rinse the floor and allow to dry.
- Remove tape and apply a coating of Scotchgard™ Vinyl Floor

Protector to the affected area following appropriate "Application Procedure" section instructions above. Burnishing must be completed after each application.

- The repair is now complete. Keep repair area clear of standing water for 36 hours.

Product Specifications:

(Typical Values)

1. pH: 12
2. Solubility in water: Complete
3. Slip Resistance: Meets or exceeds ASTM-D-2047-82 co-efficient of friction of 0.5 on James Static Friction tester
4. Viscosity: 25-30 centipoise
5. Boiling point: 212°F
6. Fragrance: Slight ammonia odor
7. Appearance: Milky-white liquid
8. Specific gravity: 1.09
10. Percent solids: 24.1-25.5%

Note:

Refer to product Material Safety Data Sheet (MSDS: 26-9131-9) for specific health hazard, first aid and precautionary information



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