

FLOR-SHIELD™

Surface Densifying and Surface Protective Treatment

Technical Information Sheet

Product Description

FLOR-SHIELD™ is a two component reactive hydrophobing impregnating treatment that combines surface hardening with stain resistance. This unique chemistry becomes a permanent part of the floor and will not migrate or wear over time. Surfaces treated with FLOR-SHIELD™ benefit from increased strength, durability, and reduced efflorescence.

Limitations and Usage

FLOR-SHIELD™ provides exceptional stain resistant without building a film on the surface. The resulting finish is a low gloss solution that will protect concrete or polished surfaces for many years. Surfaces protected with FLOR-SHIELD™ have unique protective benefits that include increased strength and durability, reduced the porosity and increased hydrophobic characteristics which provide protection against alkaline degradation, water intrusion and salt brine crystallization (sub-florescence). DIAMATIC FLOR-SHIELD™ is an excellent solution for cold storage and freezer rooms. Because of its unique chemistry it can protect concrete from extreme cold, freeze thaw cycles, and salt intrusion. It will provide stain resistance for food service or storage areas and further reduce permeability in concrete surfaces. May be used on interior concrete floor or exterior concrete flatwork. Do not allow the material to freeze.

Coverage Rate

The FLOR-SHIELD™ will cover approx. 400-500 square feet per gallon. Allow material to remain wet for 20-30 minutes. Let the material dry for 1 hour before continuing.

For exterior concrete or broomed finish the coverage rate will be 250-350 square feet per gallon. Keep wet for 20-30 minutes. Allow to dry completely before use.

Equipment

FLOR-SHIELD™: Pump type sprayer, micro-fiber pad with applicator, or soft nylon broom. personal safety equipment.

Surface Preparation

For polished concrete applications the surface of the concrete should be processed in accordance with the DIAMATIC ULTRAFLOOR® Specification. Bring the surface to a 200 grit level and remove any dust or debris.

For exterior concrete, the material may be applied as soon as the surface has been finished and will not incur any damage from the application. Waiting one day is also suitable as long as no curing compound have been used on the surface.

Packaging and Shelf Life

The DIAMATIC FLOR-SHIELD™ is a two component material. Part A is packaged in a 5 gallon pail. Part B is packaged in a 1 quart plastic container. The shelf life when properly stored is 1 year. Do not allow the material to freeze.

Application

The application temperature range should be between 40-90 degrees F (5-32 C). The temperature must not drop below 40° F within 4 hours of the application.

1. Begin by cleaning the surface to be treated completely. The surface should be clean and dry before the application begins. Be sure to remove any curing compounds or sealers from the surface.
2. For polished concrete surfaces the floor should be ground to a 200-400 grit level for the application.
3. Add the part B to the part A container and mix thoroughly. Be sure to add the full amount of the part B.
4. Spray apply the material to the surface evenly at the rate of 400-500 square feet per gallon. Follow the application with a soft broom or micro-fiber to prevent puddling on the surface.
5. Keep the surface wet for a minimum of 20 minutes, adding additional material as necessary to keep the area wet.
6. Allow the surface to dry completely before continuing, (a minimum of 1 hour).

Maintenance

Restrict using water on the surface for 72 hours after initial the installation. The surface should not be cleaned using a string mop for 60 days to avoid streaking. Avoid using mats or treated coverings for a minimum of 14 days to allow the finish to fully cure. DO NOT USE cleaners that are acidic or have citrus (de-limonene) or butyl compounds. Although the ULTRAFLOOR® DIAMATIC Polished Concrete System is chemical and stain resistant, the application of these high acid cleaners may etch the surface and cause a residual stain. Regular maintenance and cleaning will help prolong surface shine. In most installations water is sufficient for cleaning, DIAMATIC FLOR-CLEAN may be used where required.

Safety

See Material Safety Data Sheet (MSDS). This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and to determine the applicability of regulatory limitations prior to use. Dispose of any unused materials in accordance with Federal, State and Local regulations. This product is a water borne low emitting VOC material and poses no significant health hazards. Safety glasses and latex gloves should be worn during the application. Keep out of the reach of children.