

Technical Product Data



PRECISION SLIPSHIELD®

PRECISION COATINGS

DESCRIPTION

Slip resistant modified epoxy floor sealer
Improves coefficient of friction when properly applied on selected substrates
Superior ultra-violet weathering
Stain resistant and highly cleanable
Low VOC – Low Odor / No isocyanates
Available in gloss & semi gloss sheens
Clear and solid color finishes
LEED NC 2009 compliant

USES

Slip resistant coating system
Commercial and institutional floors
Industrial maintenance floors
Concrete flooring (interior/exterior)
Ceramic tile floors (interior/exterior)
Polished stone floors
Grout lines

TECHNICAL DATA

% SOLIDS by volume	92% as applied
COATINGS VOC (as packaged)	max. 3 g/l (less water & exempt compounds)
APPLIED VOC (reacted)	max. 89 g/l (less water & exempt compounds) includes reaction volatiles
COMPONENTS	Advanced Polymer Modified Epoxy Coating Resin 4 parts /Activator 1 part
POT LIFE	4 hours @ 70° F, 21° C
SHELF LIFE	one year (unopened)
REDUCERS	Not required
FLASH POINT	109° F, 42.8° C
MIX RATIO	4:1 (4 parts resin : 1 part activator)
RECOMMENDED DRY FILM THICKNESS	3-5 mils per coat (75-125 microns), 1 to 2 coats
THEORETICAL COVERAGE	491 – 295 sq. ft. at recommended DFT (theoretical)

Precision SlipShield® slip resistant floor sealer may be applied over appropriately prepared concrete, ceramic tile, polished stone, tightly adherent coatings as well as steel and galvanized decking. Precision SlipShield® is available in Clear, Fleet White, Titanium Gray, Shadow Beige, Desert Brown, and standard safety colors. Custom color matching is available upon request.

Flooring installation professionals are best equipped to install SlipShield®. Good painting practices require that before applying the coating, a field mock-up on the actual project substrate of approximately 4' x 4' be installed to confirm adhesion, compatibility, appearance and ensure the suitability of the product for its intended use including measuring the coefficient of friction before and after applying the mock-up to verify and approve the adequacy of the product for the specific application. Coating performance is proportional to the degree of surface preparation performed prior to application. All surfaces must be clean, dry, and free of oil, grease, wax, dirt, salt deposits or other contamination.

If extra slip resistance is needed due to water, splash and spill, steep ramps, stairs or other considerations, Precision's specialized aggregate, **SlipShield® Aggregate** can be added to SlipShield® to further increase slip resistance on interior and exterior surfaces. The addition of our unique aggregate in SlipShield® provides improved slip resistance with minimal aesthetic impact on tile, polished stone, polished concrete, and coated floors.

SURFACE PREPARATION:

Concrete – Surface must be cured, clean, dry and free of contamination. Water vapor pressure in concrete shall not exceed 4 lbs. per 1,000 square feet. Shot blast or grind to remove laitance and achieve a 70-80 mesh profile appearance per SSPC – SP13. NACE 6 Surface Preparation of Concrete.

Ceramic Tile – Tile surface and grout must be clean and dry. All wax, grease, silicone sealants, dirt and other contaminants must be removed from the surface.

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Polished Stone Flooring – Stone surface and grout must be clean and dry. All wax, grease, silicone sealants, dirt and other contaminants must be removed from the surface.

Steel – Clean the surface of all foreign material SSPC-SP1 and SSPC-SP2 or SSPC-SP3, SSPC-SP6 or SSPC-SP7. Substrate must be clean, dry and free of any contaminants prior to application. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

Galvanized Steel – Preparation shall meet ASTM D6386 –10. Remove all contaminants per SSPC-SP1, check for the presence of chromates or other passivation treatments per SSPC-SP16. If passivation treatment exists, brush-off blast cleaning per SSPC-SP16 is required. Complete removal of chromates or other passivating treatments must be confirmed by testing (SSPC-SP16 or ASTM B 201) prior to coating application.

New and Existing Coated Surfaces – Physically abrade existing coated surfaces thoroughly and completely with 180 grit or equivalent abrasive paper or scuff pad. Substrate must be clean, dry and free of any contaminants prior to application of the Precision SlipShield®. For primed substrates, follow the surface preparation instructions and recoat times for the specific primer used.

INSTRUCTIONS – MIX RATIO

Stir SlipShield® Part A thoroughly prior to mixing SlipShield® Part A with SlipShield® Cure. Thoroughly mix Part A and Part B together to ensure a uniform mixture of the two parts. Mix 4 parts SlipShield® Part A with 1 part SlipShield® Cure. Additional reduction is not necessary.

APPLICATION

Precision SlipShield® is designed for application by professional coating applicators only. Precision SlipShield® is commonly applied by floor coating application pad, roller or brush. Utilize a 3/16" or 3/8" nap phenolic core roller. Application can also be done by spray. Recommended film thickness is 3.0 to 5.0 mils DFT. Air and surface temperature must be above 50° Fahrenheit and no more than 95° Fahrenheit during application. Surface temperatures must be at least 5° F (3° C) above the dew point for application. Relative humidity below 40% will extend the dry times.

APPLICATION EQUIPMENT

Roller – 3/16" to 3/8" inch nap, phenolic core

Brush – natural bristle

Floor Coating Applicator Pad – Lambskin

DRY TIMES

Dry times @ 70°F (21°C) and 50% RH

Tack Free 4 hours

Dry Time 24 hours light traffic / 48 hours full traffic

Recoat Clean surface and abrade with 180 grit abrasive paper prior to recoating,

CLEAN UP

Follow local, state and federal regulations. Clean all application equipment including spray equipment immediately after use. Acetone may be used to clean application equipment. PCI's 17000 Gun Cleaner is a VOC exempt cleaner and may be used for cleaning application equipment used to apply the Precision SlipShield® system. Refer to Safety Data Sheet for proper handling of products listed in this bulletin.

SLIPSHIELD® MAINTENANCE

Precision SlipShield® can be cleaned and maintained with water and mild non-abrasive detergent cleaning. In order to optimize and maintain its slip-resistant properties, Precision SlipShield® should NOT be waxed. Facility owners and operators using SlipShield® are responsible for developing a daily maintenance plan and establishing a walkway audit schedule of the floors coated with SlipShield®.

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LIMITATIONS

For professional use only. Do not apply in freezing conditions or if rain is imminent. Protect installed coating from rain, freezing and continuous high humidity until completely dry. Do not apply if elevated levels of water vapor transmission may exist following application. At water vapor transmission levels greater than 4 perms, clouding, blistering or bubbles may occur. In areas with limited or no exposure to natural light, SlipShield may amber in color. This coating is not recommended for immersion service and should not be applied to unstable substrates.

Refer to Safety Data Sheet for proper handling of products listed in this bulletin.

DISCLAIMER: The technical information and suggestions for use have been compiled for your guidance and usage. Such information is based on Precision Coatings experience and research and is believed to be reliable. As Precision Coatings has no control over conditions in which the product is used, stored, or otherwise handled, the above information does not constitute a warranty. Buyers must assume responsibility for the suitability of the product for their purposes. 12.2017

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