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PRODUCT DATA SHEET

SP-2700 ABRADE-GUARD

DESCRIPTION: Specialty Polymer Coatings, Inc.'s SP-2700 Abrade-Guard is a solvent free, no VOCs, 100% solids two-component epoxy coating.

ADVANTAGES:

- 100% Solids - No VOCs.
- Solvent free.
- Ideally suited for surfaces such as decks, ramps and pipelines that are exposed to severe abrasion and impact.
- Ideally suited for concrete flooring subjected to chemical spillage.

APPLICATION:

- Spray Grade: Air spray by worm-pump equipment or modified piston pump.
- Trowel: Notched trowel.

RECOMMENDED FILM THICKNESS: 2.5 mm (100 mils) minimum.

SURFACE PREPARATION:

- (Steel Substrate)
- **Cleanliness:** The surface to be coated shall be dry and free of grease, oil, dust, abrasive material or any other contaminants. Remove grease and oil with a suitable detergent. Remove salts and other contaminants by high-pressure fresh water cleaning prior to blasting. All dust from sanding or blast roughening must be removed from the surface prior to application of the coating.
 - **Standards:** Abrasive blast-clean to SSPC SP-10 or SSPC SP-6 depending on the area of use. Pipe with factory applied smooth Fusion Bond Epoxy (FBE) will require surface roughening brush off blast SSPC SP-7.
 - **Profile** 2.0 mils minimum to 4.0 mils maximum (50 microns to 100 microns)

All information, recommendations, and test performance results herein were obtained in a controlled environment and SPC makes no claim that the data and tests accurately represent all environments and specific project specification requirements. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating. SPC products are sold with the understanding that the purchaser or user is solely responsible for determining their suitability for any purpose, and that the purchaser or user assumes all risks and liability associated with the use of the product. No guarantee, either expressed or implied, is made with respect thereto or with respect to the infringement of any patent. The information herein is not to be copied, used in evidence, released for publication, or public distribution without written permission from Specialty Polymer Coatings.



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SP-2700 ABRADE-GUARD

SURFACE PREPARATION (cont.):

- (New Concrete Substrate)
- **Cleanliness:** Ensure the concrete is fully cured for 28 days before coating. Remove grease, oil, form release oils, and other surface contaminants with a suitable solvent or detergent. Some new concrete may have a surface coating to speed up the cure and harden the surface. Such material must be removed before acid etching.
 - **Acid Etching:** The acid solution consists of one (1) part muratic acid to three (3) parts water. **Never pour the water into the acid.** To prevent splashing the hot acid, add the acid carefully into the water. Apply the acid solution using a stiff fiber brush. The acid will react with the Portland cement, which can be seen by the bubbling. When the bubbles cease to occur, apply more acid solution to check if the surface etching is complete. When no more bubbling is evident, flush the floor thoroughly with clean water. Allow the concrete surface to dry before application of the coating.
 - **Caution:** Wear rubber gloves, splash-proof chemical safety goggles, and rubber footwear during the etching operation to prevent serious chemical burns to skin and eyes. An organic vapour cartridge respirator is necessary where vapour concentration is high enough to cause eye, nose or throat irritation.
- (Old Concrete Substrate)
(Previously Coated)
- **Cleanliness:** Do not apply SP-2700 Abrade-Guard over existing paint film other than existing two-component epoxy in good condition. Remove all oil, grease, and surface contaminants with a suitable solvent or detergent.
 - **Abrasive blast surface** to ensure good inter-coat adhesion. For a small surface area, the use of sandpaper will suffice. Remove old coating (other than two-component epoxy) by sandblasting or with a self-contained vacublast machine. Ensure all incompatible old coatings are removed before applying SP-2700 Abrade-Guard.

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FINISH: Textured

- MIXING RATIO:**
- By Volume: 6 Parts Base to 1 Part Hardener
 - By Weight: 12.42 Parts Base to 1.00 Part Hardener

MIXING INSTRUCTIONS: For easier mixing, empty the Blue Hardener into the Base container before putting the mechanical agitator in the material.

COLOUR AFTER MIXING: Blue

HANDLING PROPERTIES:

Pot Life [25°C (77°F)]..... 1 Hour
Dry Time (ASTM D-1640) [100 mils coating thickness @ 25°C (77°F)]
Dry Hard Time 4-5 Hours

- SP-2700 Abrade-Guard coating can be immersed in water after 30 minutes dry time without affecting the curing.

Application Temperature..... The temperature should be above 10°C (50°F). The substrate temperature must be a minimum of 3°C (5°F) above the dew point temperature before proceeding with the coating operation to avoid condensation.

LIQUID PROPERTIES	<u>BASE</u>	<u>HARDENER</u>
Appearance.....	Off White	Blue Liquid
Volume Solids Content (%)	100	100
Specific Gravity (ASTM D-792).....	1.9/kg./litre 15.9/lbs./U.S. Gallon	
Coverage (Theoretical).....	0.4 m ² /litre - 2.5 mm DFT 16.2 ft. ² /US Gallon - 100 mils DFT	

SAFETY: Read the Material Safety Data Sheets before use.

EFFECTIVE DATE: October 24, 2016

SPC / Product Data Sheet SP-2700.doc

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