POLYSURF UV-GUARD 8111

Product Data Sheet

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POLYSURF UV-GUARD 8111
Aliphatic Polyester
Polyurethane Topcoat

Product Description:
PolySurf UV-Guard 8111 is a two-component, aliphatic polyester polyurethane for use in moderate to severe chemical environments in indoor or outdoor applications. This product does not meet VOC requirements for SCAQMD areas.

Features
- Color and Gloss Retention
- Chemical Resistant
- Impact Resistant
- Easy Clean-ability

Typical Uses
- Concrete
- Pedestrian Traffic
- Power Generating Plants
- Food Processing Facilities
- Steel Structures & Bridges
- Milling & Ming Industry
- Manufacturing Plants
- Warehouse Floors
- Storage Tanks
- Petrochemical Plants
- Aircraft Hangers
- Pulp & Paper Industry

Colors:
Clear, Tan and Grey

Custom colors are also available. Minimum order of 150 gallons (568 liters). See color chart for special provisions. Contact Polymer Surfaces for more information.

Technical Data (Based on draw down film)

Coverage Rate	0.5 gal/100 sq. ft.
Dry Film Thickness per Coat	5 ± 2 mils 127 ± 50 microns
Pot Life at 75°F (24°C), 50% R.H.	60-75 minutes
Flash Point	91°F (32.7°C)
Total Solids by Volume, ASTM D-2697	63%
Volatile Organic Compounds, ASTM D-2369-81	2.8 lb/gal 337 gm/liter

Chemical Resistance (ASTM D-814)

Excellent	Good	Fair	Poor
Distilled Water	Unleaded	Hexanol	IPA, 99%
Skydrol	Gasoline	Acetone	Butanol
Skydrol Jet Fuel		MEK	
Hydrolic Oil		MIBK	
Motor Oil		Butyl Acetate Toluene	
		Xylene	

Packaging
5 gallon kit (18.9 liter):
Clear Kits: One 5 gallon pail, net fill 2.2 gallons (8.3 liters) of Part-A and One 5 gallon pail, net fill 2.8 gallons (10.6 liters) of Part-B.
Pigmented Kits: One 5 gallon pail, net fill 2 gallons (7.57 liters) of Part-A and One 5 gallon pail, net fill 3 gallons (11.36 liters) of Part-B.

1 gallon kit (3.78 liter):
Clear Kits: One 1 gallon can, net fill 0.44 gallons (1.67 liters) can containing Part-A and One 1 gallon can, net fill 0.56 gallons (2.12 liters) containing Part-B.
Pigmented Kits: One 1 gallon, net fill 0.40 gallons (1.51 liters) can containing Part-A and One 1 gallon can, net fill 0.60 gallons (2.27 liters) containing Part-B.

Mixing:
PolySurf UV-Guard 8111 may not be diluted under any circumstance. PolySurf UV-Guard 8111 Part-A and Part-B should be mixed individually before combining. Add Part-B to Part-A while mixing, using a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is obtained (at least 5 minutes) and mix frequently during application to maintain uniform color. Use care to scrape the sides of the container to ensure that no unmixed material remains.

Surface Preparation:
See General Guidelines for additional surface preparation information.

All surfaces must be free of oil, grease, dirt and other contaminants.

Existing Coatings: A test area should be completed before topcoating.

Surface temperature should be between 60-100°F (15.5-37.7°C). Do not apply product unless temperature is at least 5°F (3°C) above the dew point. Re-coat schedule is 8-48 hours depending on the environment.

Application:
Check area of application to ensure that it conforms to the substrate requirements as stated in the general guideline section. Prime interior and exterior floors and slabs.

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Apply PolySurf UV-Guard 8111 to the substrate at a rate of 0.5 gallon/100 sq. ft. (1.9 liters/m²). Additional coats may be necessary to achieve desired results.

PolySurf UV-Guard 8111 is a high-performance coating and may become slippery when wet.

Airless Sprayer: Use Graco 28:1 pump or higher, Binks "Airless" spray gun with Reversa-Clean 0.017-0.019 spray tips and a" solvent resistant fluid line. Adjust pump pressure to the lowest possible setting that provides proper atomization. Equipment of equal performance is acceptable.

Conventional Spray: Variations of conventional production spray equipment such as pressure pot, air assisted airless or high volume, low pressure systems as supplied by Binks, Graco, Nordson, Devilbiss or equal may be used.

Brush: Use solvent resistant mohair or natural bristle brush with feather edge.

Roller: Use solvent resistant phenolic core, short nap sheepskin or equal natural roller covers.

Curing:
At 75°F (24°C) and 50% relative humidity, allow PolySurf UV-Guard 8111 cure a minimum of 4 hours. Cure time will vary depending on temperature and humidity. Recoats should occur within 8-12 hours of when surface becomes tack free.

Storage:
PolySurf UV-Guard 8111 has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

Limitations:
PolySurf UV-Guard 8111 should not be applied in areas where the surface will come into continual contact with water.

The uncured materials used in PolySurf UV-Guard 8111 are very sensitive to heat and moisture. Higher temperature and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extends the cure time and the use of accelerators may be necessary.

Requires a continuous coating application to minimize lines and/or streaking.

Material remaining after application must be tightly sealed to protect it against curing in its container.

The following conditions must not be coated with Polymer Surfaces deck coating systems or products: on grade or below grade slabs, split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, lightweight concrete, asphalt surfaces and asphalt overlays.

Warning:
This product contains Isocyanates and Solvent.

PolySurf UV-Guard 8111 Part-A is considered Dangerous Goods. DOT regulations classify it as: **UN 1263, PAINT, Class 3, PG III, FLAMMABLE LIQUID.**

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local U.S. Polymer Surfaces International representative or visit our website for current technical data and instructions.

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