



www.uspolymersurfaces.com
info@uspolymersurfaces.com

POLYSURF UV-GUARD 8072 SC

Product Data Sheet

Technical Data (Based on draw down film)
POLYSURF UV-GUARD 8072 SC, CLEAR 100 VOC
(For Use In SCAQMD Areas)

POLYSURF UV-GUARD 8072 SC

Aliphatic, Polyaspartic, Polyurea
Waterproofing Membrane Topcoat

Product Description:

PolySurf UV-GUARD 8072 SC is an aliphatic polyaspartic, environmentally friendly surface topcoat for waterproofing membrane systems. PolySurf UV-GUARD 8072 SC is quick curing and specifically formulated to be installed in thin film applications. It is designed for use in Southern California and is in compliance with SCAQMD air quality standards.

Features:

- Quick Cure
- High Tensile Strength
- Abrasion Resistant
- Excellent Weatherability
- Seamless Waterproofing Membrane
- UV Resistant For Superior Gloss Retention
- For use in SCAQMD areas
- Topcoat over aromatic polyurea, polyurethane and epoxy applications ranging from 35°F to 130°F, service temp. from 0°F to 200°F
- Color Stable
- High Gloss
- Very Durable
- Concrete Primer

Typical Uses:

- Concrete
- Plywood
- Cold Storage Areas
- Industrial Warehouses
- Chemical Plants
- Off-Shore Oil Platforms
- Steel
- Plastic
- Food Processing Areas
- Pulp and Paper Mills
- Fertilizer Plants
- Pipeline Barges

Colors:

Clear, Tan and Dolphin Grey.

Custom colors are also available. Minimum order of 100 gallons (378 liters). See color chart for special provisions. Contact Polycoat Products for more information.

Packaging

2 gallon kit (7.57 liter): One 1 gallon (3.78 liters) can part-A and One 1 gallon (3.78 liters) can Part-B.

10 gallon kit: One 5 gallon (18.9 liter) pail of Part-A and One 5 gallon (18.9 liter) pail of Part-B.

10 gallon kit is not a stock item and is available with minimum order of 100 gallons (378 liters).

Mixing:

PolySurf UV-GUARD 8072 SC may not be diluted under any circumstance. PolySurf UV-GUARD 8072 SC 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. Use caution not to whip air into the material as this may result in pinhole blisters and/or shortened pot life.

Do not mix in an up and down motion. Do not mix any material that cannot be used within 45 minutes.

Mix Ratio by Volume	1A : 1B
Coverage Rate	1 gal/100 sq. ft.
Dry Film Thickness per Coat (exclusive of aggregate)	14 ± 2 mils 356 ± 50 microns
Pot Life at 75°F (24°C), 50% R.H.	45-60 minutes
Hardness, ASTM D-2240	65 ± 5 Shore D
Tear Resistance, Die C, ASTM D-624	400 ± 30 pli 70.1 ± 8.8 kN/m
Tensile Strength, ASTM D-412	3500 ± 300 psi 24.1 ± 2.1 MPa
Ultimate Elongation, ASTM D-412	50 ± 10%
Specific Gravity	
Side-A	1.07
Side-B	1.02
Total Solids by Weight, ASTM D-2369	90 ± 2%
Total Solids by Volume, ASTM D-2697	88 ± 2%
Viscosity at 75°F (24°C)	
Side-A	200 ± 50 cps
Side-B	200 ± 50 cps
Volatile Organic Compounds, ASTM D-2369-81	0.83 lb/gal 100 gm/liter

Technical Data (Based on draw down film)
POLYSURF UV-GUARD 8072 SC, PIGMENTED - 100 VOC.
(For Use In SCAQMD Areas)

Mix Ratio by Volume	1A : 1B
Coverage Rate	1 gal/100 sq. ft.
Dry Film Thickness per Coat (exclusive of aggregate)	14 ± 2 mils 356 ± 50 microns
Pot Life at 75°F (24°C), 50% R.H.	45-60 minutes
Hardness, ASTM D-2240	65 ± 5 Shore D
Tear Resistance, Die C, ASTM D-624	400 ± 50 pli 70.1 ± 8.8 kN/m
Tensile Strength, ASTM D-412	3500 ± 300 psi 24.1 ± 2.1 MPa
Ultimate Elongation, ASTM D-412	50 ± 20%
Specific Gravity	
Side-A	1.07
Side-B	1.27
Total Solids by Weight, ASTM D-2369	91 ± 2%
Total Solids by Volume, ASTM D-2697	89 ± 2%
Viscosity at 75°F (24°C)	
Side-A	200 ± 50 cps
Side-B	1400 ± 200 cps
Volatile Organic Compounds, ASTM D-2369-81	0.83 lb/gal 100 gm/liter

Application:

PolySurf UV-GUARD 8072 SC can be applied by phenolic resin core roller, high pressure spray, or through a cup gun under low pressure. PolySurf UV-GUARD 8072 SC should be applied at a minimum film thickness of 5 mils. It should be noted that the heavier the application, the longer the curing process takes.

Apply PolySurf UV-GUARD 8072 SC evenly over the entire deck. For best results, use an airless sprayer. A phenolic resin core roller may be used, but extra care should be taken not to cause air bubbles.

Curing:

At 75°F (24°C) and 50% relative humidity, allow each coat to cure 2-4 hours.

Allow 6 hours before permitting light pedestrian traffic and at least 24-48 hours before permitting heavy pedestrian traffic on to the finished surface.

Uncured PolySurf UV-GUARD 8072 SC is very sensitive to heat and moisture. Higher temperatures and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application.

Low temperature and/or low humidity extend the cure time.

Equipment Cleanup:

Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Storage:

PolySurf UV-GUARD 8072 SC 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:

The following conditions must not be coated with U.S. Polymer Surfaces **deck coatings or systems**: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and lightweight concrete. On grade slabs may receive U.S. Polymer Surfaces system coatings provided a moisture-vapor transmission test is first performed. Please contact U.S. Polymer Surfaces technical department with the results.

With regard to coating asphalt surfaces, please contact U.S. Polymer Surfaces technical department.

Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.

Warning:

This product contains Isocyanates and Solvent.

Limited Warranty:

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.

U.S. Polymer Surfaces International warrants its products to be free of manufacturing defects and that they will meet U.S. Polymer Surfaces International current published physical properties. U.S. Polymer Surfaces International warrants that its products, when properly installed by a state licensed waterproofing contractor according to U.S. Polymer Surfaces International guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by U.S. Polymer Surfaces International of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. U.S. Polymer Surfaces International shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. U.S. Polymer Surfaces International shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. U.S. Polymer Surfaces International reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

Disclaimer:

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and U.S. Polymer Surfaces International makes no claim that these tests or any other tests, accurately represent all environments.

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