POLYCOAT STAINGARD™ 9072SC

Aliphatic, Polyaspartic, Polyurea Waterproofing Membrane Topcoat

Product Description

Polycoat Staingard™ 9072SC is an aliphatic polyaspartic, environmentally friendly, highly chemical resistant surface topcoat for waterproofing membrane systems. Polycoat Staingard™ 9072SC is quick curing and specifically formulated to be installed in thin film applications. Polycoat Products manufactures products in different VOC's ranging from 100 to 340 gms/liter to comply with VOC requirements in various regions. Make sure to use the right grade of product which complies with VOC regulations/requirements applicable as per federal, state, statutory, counties, cities and local bodies at the place of installation.

Features

- Abrasion Resistant
- Excellent Weatherability
- High Gloss
- High Tensile Strength
- Quick Cure
- Seamless Waterproofing Membrane
- Skydrol Resistance
- Superior Chemical Resistance
- Topcoat Over Aromatic Polyurea, Polyurethane & Epoxy Applications
- UV Resistant For Superior Gloss Retention
- Very Durable

Typical Uses

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

Packaging

2-gallon kit	One 1 gallon (3.78 liters) can Side-A and One 1 gallon (3.78 liters) can Side-B
10-gallon kit	One 5 gallon (18.9 liter) pail of Side-A and One 5 gallon (18.9 liter) pail of Side-B 10-gallon kit is not a stock item and is available with minimum order of 100 gallons (378 liters)

Technical Data (Based on Draw Down Film)

Mix Ratio by Volume	1A : 1B
Coverage Rate	1 gal/100 sqft (0.41 l/sqm)
Dry Film Thickness per Coat	14 ± 2 mils 356 ± 50 microns
Pot Life @ 75°F (24°C), 50% R.H.	45-60 minutes
Hardness, ASTM D2240	70 ± 5 Shore A
Tear Resistance, ASTM D624	400 ± 30 pli 70.1 ± 8.8 kN/m
Tensile Strength, ASTM D412	3500 ± 300 psi 24.1 ± 2.1 MPa
Ultimate Elongation, ASTM D412	50 ± 10%
Specific Gravity, **Side A** **Side B**	 1.07 ± 0.03 1.02 ± 0.03
Total Solids by Weight, ASTM D2669	90 ± 2%
Total Solids by Volume, ASTM D2697	88 ± 2%
Viscosity at 75°F (24°C), **Side A** **Side B**	 200 ± 50 cps 200 ± 50 cps
Volatile Organic Compounds, ASTM D2369-81	0.83 lb/gal 100 gm/liters

Color

Clear

Coverage

The approximate coverage is 1 gallon/100 sqft (0.41 l/sqm). Coverage rate will depend on surface roughness and porosity.

Chemical and Stain Resistance (ASTM D1308)

Chemical (25°C)	1 Hour	24 Hours
Xylene	No Effect	No Effect
Toluene	No Effect	No Effect
Isopropyl Alcohol	No Effect	No Effect
Methyl Ethyl	Film Softened	Film Blistered
Ketone	No Effect	No Effect
Motor Oil	No Effect	No Effect
Biodiesel	No Effect	No Effect
Brake Fluid	No Effect	No Effect
Gasoline (Unleaded)	No Effect	No Effect
Transmission Fluid	No Effect	No Effect
Skydrol B-4	No Effect	No Effect
Hydrochloric Acid 10%	No Effect	No Effect
Hydrochloric Acid 5%	No Effect	No Effect
Acetic Acid 10%	No Effect	No Effect
Phosphoric Acid 10%	No Effect	No Effect
Nitric Acid 25%	Film Softened	Film Blistered
Sulphuric Acid 60%	No Effect	No Effect
Sulphuric Acid 10%	No Effect	No Effect
Sulphuric Acid 5%	No Effect	No Effect
Potassium Hydroxide 10%	No Effect	No Effect
Potassium Hydroxide 20%	No Effect	No Effect
Sodium Hydroxide 10%	No Effect	No Effect
Sodium Hydroxide 20%	No Effect	No Effect
Urine	No Effect	No Effect
Blood	No Effect	No Effect
Whiskey	No Effect	No Effect
Red Wine	No Effect	No Effect
Mineral Spirits	No Effect	No Effect

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Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Refer to product General Guidelines for detailed surface preparation information.

Minimum recommended surface preparation:

METAL:

SSPC-SP6/NACE 3, 2 mils (50 microns) profile.

CONCRETE & MASONRY:

SSPC-SP13/NACE 6 or ICRI No. 310.2 CSP 3-5. Primer required.

Mixing

Polycoat Staingard™ 9072SC may not be diluted under any circumstance. Polycoat Staingard™ 9072SC Side-A and Side-B should be mixed individually before combining. Add Side-B to Side-A while mixing, using a mechanical mixer at medium speed. Mix until a homogeneous mixture and color is attained (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 no 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 with 45 minutes.

Application

Polycoat Staingard™ 9072SC can be applied by phenolic resin core roller, high pressure spray, or through a cup gun under low pressure. Polycoat-Staingard 9072SC 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 Polycoat Staingard™ 9072SC 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 Polycoat Staingard™ 9072SC 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. If more than 12 hours have passed after applying clear coat of Polyaspartic, then re-prime surface with Polyprime® U and apply Polycoat Staingard™ pigmented coat. If clear coat is required, then clear coat should be applied only after pigmented coat. If clear coat is applied after primer, the primer will become yellowish with exposure to light and surface will not look aesthetically pleasing.

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

Cleanup

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

Storage

Polycoat Staingard™ 9072SC has a shelf life of 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 Polycoat deck coatings or systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete. On grade slabs may receive Polycoat system coatings provided a moisture-vapor transmission test is first performed. Please contact Polycoat's technical department with the results.

With regard to coating asphalt surfaces, please contact Polycoat's 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, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with the Polycoat Products materials or have undergone training in application of Polycoat Products materials. Published technical data and instructions are subject to change without notice. Contact your local Polycoat Products representative or visit our website for current technical data, instructions, and project specific recommendations.

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products' current published physical properties. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products 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. Polycoat Products 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. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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