PROTECH 9072SC

ALIPHATIC POLYASPARTIC POLYUREA WATERPROOFING MEMBRANE TOPCOAT

PRODUCT DATA

Mix Ratio ....1 Part A to 1 Part B

Coverage .....1 gal/100 sq. ft

Cure Time .....2-4 hours

Shelf life .....12 months

COLOR PIGMENTS

Clear

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

PACKAGING

2 Gallon Kit (7.5 liter):

Part A ..... 1 Gallon (3.78 liters)

Part B ..... 1 Gallon (3.78 liters)

10 Gallon Kit:

Part A ..... One 5 gallon pail (18.9 liter)

Part B ..... One 5 gallon pail (18.9 liter)

Note: 10 gallon kit is not an in-stock item and is available with advanced notice. Contact HIGHTECH for availability.

PRODUCT DESCRIPTION

PROTECH 9072SC is an aliphatic polyaspartic, environmentally friendly surface topcoat for waterproofing membrane systems. PROTECH 9072SC 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.

ADVANTAGES

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

APPLICATIONS

- 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

PHYSICAL PROPERTIES

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

CHEMICAL AND STAIN RESISTANCE (ASTM D-1308)

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 Ketone	Film Softened	Film Blistered
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
Suplhuric 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

MIXING

PROTECH 9072SC may not be diluted under any circumstance. PROTECH 9072SC 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 any material that cannot be used within 45 minutes.

APPLICATION

PROTECH 9072SC can be applied by phenolic resin core roller, high pressure spray, or through a cup gun under low pressure. PROTECH 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.

APPLICATION (CONT.)

Apply PROTECH 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 PROTECH 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.

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

CLEAN UP

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

STORAGE

PROTECH 9072SC 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 Hightech Deck Coatings or Systems: split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and lightweight concrete. Asphalt surfaces and asphalt overlays may be coated with Hightech decking systems if first coated with Sealtech IM-129.

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.

The following conditions must not be coated with Hightech 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.