POLYPRIME® 3042

Two Component, Epoxy-Polyamide Primer

Product Description

Polyprime® 3042 is a two component, NSF-61 approved liquid applied epoxy primer. This primer has been developed for use on carbon steel, non-ferrous metal, fiberglass, PVC pipe, as well as concrete and masonry.

Features

- Low Viscosity Epoxy Coating
- Provides Limited Chemical Resistance
- Surface Tolerant Primer/Sealer
- Versatile Application: Spray, Roll or Brush
- UL-NSF-61 Approved For Potable/Drinking

Typical Uses

- Chemical & Pharmaceuticals Industries
- Concrete Floors and Decks
- Food Processing Facilities
- Industrial Flooring
- Mining and Milling Industry
- Petrochemical Plants
- Power Generating Plants
- Pulp and Paper Industry
- Steel Structures and Bridges
- Water & Wastewater Treatment Plants

Packaging

3-Gallon Kit	One 3.5 gallon pail, net fill 2 gallons (7.57 liters) of Side-A and One 1 gallon (3.78 liters) can of Side-B
15-Gallon Kit	Two 5 gallon (18.9 liters) pails of Side-A and One 5 gallon (18.9 liters) pail of Side-B

Color

Side-A: Grey, Side-B: Clear

Coverage

The approximate coverage is 1 gallon/300 sqft (0.14 l/sqm) or 300 sqft/gallon. Coverage rate will depend on surface roughness and porosity.

Surface Preparation

In general, coating performance is directly proportional to surface preparation. All surfaces must be free of oil, grease, dirt and other contaminants. Refer to General Guidelines for complete information.

Technical Data (Based on Draw Down Film)

Coverage Rate	1 gal/300 sqft 0.14 l/sqm
Dry Film Thickness per Coat	4.5 ± 1 mils 102 ± 25 microns
Mixing Ratio	2A:1B
Pot Life at 75°F (24°C), 50% RH	20-30 min
Specific Gravity, **Side-A** **Side-B**	 1.12 ± 0.1 1.06 ± 0.1
Total Solids by Weight, ASTM D2369	91 ± 2%
Total Solids by Volume, ASTM D2697	90 ± 2%
Viscosity at 75°F (24°C)	1200 ± 200 cps
Volatile Organic Compounds, ASTM D2369-81	0.75 lb/gal 90 gm/liters

Carbon Steel: Use SSSP Guidelines for surface preparation. Acceptable systems include SP-6 (Commercial Blast), SP-3 (Power Tool/Hand Tool), SSSP-SP-2, 3, 6 or SP-12 (WJ-3).

Aluminum: Remove oil, grease, dirt and other contaminants with neutral detergent and treat with Alondine® 1200 or equal. Light abrasive blasting is also acceptable.

Galvanized Steel: Remove all contaminants such as oil, grease, dirt or residues with a neutral detergent and treat with Galvaprep®. Light abrasive blasting is also acceptable.

Existing Coatings: Use SSSP guidelines for re-coating methods, recommended systems are SP-7 Abrasive blast or SP-3 Power Tool cleaning. Pressurized water at 2000 psi may also be used in conjunction with abrasive blasting or Power tool cleaning. Apply a test patch to check adhesion before topcoating.

Concrete: Pressure wash (2000-3000 psi) with clean fresh water in conjunction with biodegradable cleanser if necessary

to remove all contaminants. Surface shall be dry and free of all oils, wax or any loose sealers or coatings. Use SSSP guidelines for abrading the surface such as SP-7 Brush-off blast cleaning.

Apply over prepared or suitably prepared carbon steel, galvanized steel, concrete or aluminum.

Mixing

The volume mixing ratio is 2 parts Side-A to 1 part Side-B (2A:1B). Do not mix in an up and down motion.

Polyprime® 3042 Side-A and Side-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. Polyprime® 3042 must always be mixed with two parts Side-A and one part Side-B (2A:1B).The combined components should be thoroughly mixed using a mechanical mixer at slow speed.

Polyprime® 3042 may be diluted with either PM Acetate or MEK within the regional air pollution regulations. Clean all application equipment with xylene, MEK or other appropriate solvents. Power stir product until uniform color appears, approximately 5 minutes.

Polyprime® 3042 is very sensitive to heat and moisture. Higher temperature will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature extends the cure time and the use of accelerators may be necessary.

Application

Polyprime® 3042 should be applied at the rate of 1 gallon (mixture of Side-A & Side-B)/300 sqft (0.14 liters/sqm). Coverage rate will depend on surface roughness and porosity. It can be applied using an airless sprayer, brush, or phenolic resin core roller.

Application temperature for Polyprime® 3042 should be between 60-95°F (15-35°C). Do not apply product unless temperature is at least 5° F (3°C) above the dew point. Re-coat schedule is 2-36 hours dependent upon environment. See Specification Guide for re-coating guidelines and additional information.

Airless Spray: Use Graco 28:1 pump or higher, Binks "Airless" spray gun with Reversa-Clean 0.017-0.019 spray tips with a 1" 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. See Specification Guide for additional information.

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

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

Cleanup

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

Storage

Polyprime® 3042 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

Polyprime® 3042 should be coated within 36 hours after it has become tack free. Not UV stable. Surfaces must be dry, clean and free of foreign matter. Containers that have been opened must be used as soon as possible.

Polyprime® 3042 is difficult to clean up after it has cured. Mix no more material than can be used within minutes.

Warning
This product contains Epoxy Resin and Curatives.