POLYCOAT PRODUCTS
A Division of American Polymers Corp.

POLYPRIME 3042

Polyamine Epoxy Primer / Sealer Technical Data Sheet

DESCRIPTION

Polyprime 3042 is a two component, 100% solids, liquid applied primer. This primer has been developed for use on carbon steel, non-ferrous metal, fiberglass, PVC pipe, as well as concrete and masonry.

FEATURES

- ❖100% Solids
- ❖Low Viscosity Epoxy Coating
- ❖Surface Tolerant Primer Sealer
- ❖Provides Limited Chemical Resistance
- ❖Versatile Application: Spray, Roll or Brush

TYPICAL USES

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

TYPICAL APPLICATIONS

To be used as a primer over Carbon Steel, Galvanized Steel, Aluminum, Existing Coating, and Concrete. It is to be top-coated with Polycoat's plural component spray systems such as Polyeuro® 1050H, Polyeuro® 5502, Polyeuro® MPL or polyaspartic topcoats such as Polycoat-Staingard 6000 or 6072, as well as with moisture cured polyurethane systems, such as Polyglaze 100, Polycoat-Staingard 1110, or Diamondglaze 1000.

COLORS

Part-A: Grey, Part-B: Clear

PACKAGING

3 gallon kit: One 3.5 gallon pail, net fill 2 gallons (7.57 liters) of Part-A and One 1 gallon (3.78 liter) can of Part-B

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

MIXING

The volume mixing ratio is 2 parts Part-A to 1 part Part-B.

Polyprime 3042 Part-A and Part-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. Polyprime 3042 must always be mixed with two parts Part-A and one part Part-B (Part-A: Part-B = 2:1). 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.

TECHNICAL DATA (Based on draw down film)	
Coverage Rate	1 gal/300 sq. ft. 0.14 l/m²
Pot Life at 75°F (24°C), 50% R.H..	20-30 min.
Dry Film Thickness per Coat	5 ± 1 mils 127 ± 25 microns
Hardness, ASTM D-2240	70 ± 5 Shore D
Specific Gravity,	
Part-A	1.09
Part-B	1.07
Total Solids by Weight, ASTM D-2369	100%
Total Solids by Volume, ASTM D-2697	100%
Viscosity at 75°F (24°C),	
Part-A & B combined	600 ± 50 cps
Volatile Organic Compounds,	
ASTM D-2369-81	0 lbs/gal 0 gm/liter
Sag Resistance at 75°F (24°C)	5 - 6 mil 127 -152 microns

Polyprime 3042 is 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.

APPLICATION DATA

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

Surface Preparation Method:
Carbon Steel: SSSP-SP-2, 3, 6 or SP-12 (WJ-3).
Aluminum: Alondine®, Alumiprep® or light abrasive blast.
Galvanized Steel: Galvaprep or light abrasive blast.
Concrete: SSSP-SP-7 Brush-Off Blast.

SURFACE PREPARATION

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

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

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.

See Specification Guide for further detail.

APPLICATION
Polyprime 3042 should be applied at the rate of 1 gallon (mixture of Part-A & Part-B)/300 sq. ft. (0.14 liters/m^2). 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. Recoat 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.

EQUIPMENT 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 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
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.