



**POLYCOAT
PRODUCTS**
A Division of American Polymers Corp.

POLYPRIME 21
High Solids
Epoxy-Polyamine Primer
Technical Data Sheet

DESCRIPTION

Polyprime 21 is a two component, high solids, liquid applied, epoxy-polyamine primer with unique penetrating characteristics.

FEATURES

- ❖ Low Odor
- ❖ Solvent Free
- ❖ Low Viscosity
- ❖ Excellent Adhesion

TYPICAL USES

- ❖ Concrete
- ❖ Polyurethane Elastomeric Surfaces
- ❖ Plywood

COLORS

Part-A: Blue, Part-B: Yellow

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 Blue Liquid to 1 part Part-B Yellow Liquid.

Polyprime 21 Part-A and Part-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. Polyprime 21 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.

APPLICATION

Polyprime 21 should be applied at the rate of 1 gallon (mixture of Part-A & Part-B)/300 sq. ft. (0.14 liters/m²). Coverage rate will depend on surface roughness and porosity. It can be applied using an airless sprayer, brush, or phenolic resin core roller.

Allow Polyprime 21 to become tack free before applying the coating. Approximate tack free time is 4-6 hours at 75°F (24°C) and 50% relative humidity.

Recommended surface temperature should be greater than 50°F (10°C) and at least 5°F (3°C) above the dew point.

Polyprime 21 is very sensitive to heat and moisture. Higher temperatures and/or high humidity will significantly accelerate the cure time and pot life. 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

TECHNICAL DATA (Based on draw down film)

Coverage Rate	1 gal/300 sq. ft. 0.14 l/m ²
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	91%
Total Solids by Volume, ASTM D-2697	90%
Viscosity at 75°F (24°C),	
Part-A & B combined	600 ± 50 cps
Volatile Organic Compounds,	
ASTM D-2369-81	0.75 lb/gal 90 gm/liter

solvent, as permitted under local regulations, immediately after use.

STORAGE

Polyprime 21 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 21 should be coated within 12 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 21 is difficult to clean up after it has cured.

Do not dilute Polyprime 21.

Mix no more material than can be used within 20 minutes.

WARNING

This product contains Epoxy Resin and Curatives.

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 Polycoat Products representative or visit our website for current technical data and instructions.

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