



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

**POLYPRIME U**  
**Product Data Sheet**

**POLYPRIME U**  
**Two-Component, High Solids,  
Aromatic Polyurethane Primer**

**Product Description:**

Polyprime U is a two component, high solids, liquid applied primer with unique penetrating characteristics.

**Features:**

- High Solids
- Low Odor
- Fast Re-Coat Time
- Low Viscosity

**Typical Uses:**

- Intercoat adhesion and re-coat primer for existing urethane systems.
- When combined with Polyglaze Hardener, Polyprime U may be used as a quick drying concrete primer for vehicular and pedestrian deck coatings.

**Colors:**

Part-A: Black, Part-B: White

**Packaging:**

2 gallon kit: One 1 gallon (3.78 liter) can of Part-A and One 1 gallon (3.78 liter) can of Part-B.

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

**Technical Data (Based on draw down film)**

Coverage Rate	1 gal/300 sq. ft. 0.14 l/m <sup>2</sup>
Dry Film Thickness per Coat	5 ± 1 mils 127 ± 25 microns
Pot Life at 75°F (24°C), 50% R.H.	60-90 min.
Specific Gravity, Part-A	1.22
Part-B	0.98
Total Solids by Weight, ASTM D-2369	97.8%
Total Solids by Volume, ASTM D-2697	97.7%
Viscosity at 75°F (24°C) Part-A & B combined	500 ± 100 cps
Volatile Organic Compounds, ASTM D-2369-81	0.21 lb/gal 25 gm/liter

**Mixing:**

The volume mixing ratio is 1 part Part-A Black Liquid to 1 part Part-B White Liquid. Do not mix in an up and down motion.

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

When used as a quick drying primer, mix Polyprime U at a mix ratio of:

- 2 gallon kit / mix Polyprime U Part-A and Part-B, then mix in ½ pint of Polyglaze Hardener.
- 10 gallon kit / mix Polyprime U Part-A and Part-B, then mix in 1 quart of Polyglaze Hardener.

**Application:**

Polyprime U should be applied at the rate of 1 gallon (mixture of Part-A & Part-B) /300 sq. ft. (0.14 liters/m<sup>2</sup>). Coverage rate will depend on surface roughness and porosity. It can be applied using an airless sprayer, brush, or phenolic resin core roller. Do not allow the material to puddle.

Allow Polyprime U to become tack free before applying the coating. Approximate tack free time is 2-4 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 U 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 solvent, as permitted under local regulations, immediately after use.

**Storage:**

Polyprime U 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).

**POLYPRIME U PRIMER**

**Limitations:**

Polyprime U should be coated within 12-16 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 U is difficult to clean up after it has cured. Do not dilute Polyprime U. Mix no more material than can be used within 20 minutes.

**Warning:**

This product contains Epoxy Resin and Curatives.

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Ph: 800-474-7570, 602-272-8128 Fax: 602-272-8014

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**Limited Warranty:**

*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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