



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

THEMECOAT® POLYPRIME U
Aromatic Polyurethane Primer
Technical Data Sheet

DESCRIPTION

Themecoat® 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 primer for existing Urethane System only

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.

MIXING

The volume mixing ratio is 1 part Part-A Black Liquid to 1 part Part-B White Liquid.

Themecoat® PolyPrime U Part-A and Part-B should be thoroughly agitated prior to mixing to ensure a homogeneous material. Themecoat® 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.

APPLICATION

Themecoat® PolyPrime U 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. Do not allow the material to puddle.

Allow Themecoat® 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.

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.	60-90 min.
Dry Film Thickness per Coat	5 ± 1 mils 127 ± 25 microns
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 lbs/gal 25 gm/liter

EQUIPMENT CLEANUP

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

STORAGE

Themecoat® 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).

LIMITATIONS

Themecoat® PolyPrime U 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.

Themecoat® PolyPrime U is difficult to clean up after it has cured.

Do not dilute Themecoat® PolyPrime U.

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

WARNING

This product contains Isocyanate.

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.

LIMITED WARRANTY

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