



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

THEMECOAT™ 112
*Two-Component
Polyurethane Primer
Technical Data Sheet*

DESCRIPTION

Themecoat™ 112 is a two component, 100% solids, liquid applied, urea polyurethane primer.

FEATURES

- ❖ Low Odor
- ❖ Solvent Free
- ❖ 100% Solids
- ❖ Quick Drying

TYPICAL USES

- ❖ Metal
- ❖ Glass Reinforced Plastics
- ❖ Polyurethane Elastomeric Surfaces

COLOR

Part-A: Black, Part-B: White

PACKAGING

3 gallon kit: One - 1 gallon (3.78 liter) can of Part-A Black Liquid, net 1 gallon and One 3.5 gallon pail of Part-B White Liquid, net 2 gallons (7.56 liter).

15 gallon kit: One - 5 gallon (18.9 liter) pail of Part-A Black Liquid, containing 5 gallons. Two - 5 gallon (18.9 liter) pails of Part-B White Liquid, each containing 5 gallons.

COVERAGE

Approximate coverage per gallon is 400 per sq.ft

SURFACE PREPARATION

Remove all contaminant, oil and grease from substrate.

MIXING

Themecoat™ 112 may not be diluted under any circumstance. The volume mixing ratio: 1 part Part-A Black Liquid to 2 parts Part-B White Liquid. Themecoat™ 112 Part-B should be thoroughly mixed prior to combining to ensure a homogeneous material. The combined components should be thoroughly mixed using a mechanical mixer at slow speed or for at least 5 minutes if mixed by hand.

APPLICATION

Themecoat™ 112 should be applied at the rate of 1 gallon (mixture of Part-A & Part-B)/400 sq. ft. (0.102 liters/m²). It can be applied using an airless sprayer, brush, or phenolic resin core roller.

Allow Themecoat™ 112 to become nearly tack free before applying the coating. Recommended surface temperature should be greater than 50°F (10°C). If Themecoat™ 112 is allowed to dry completely, re-prime the surface before proceeding.

Themecoat™ 112 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

Coverage Rate, per 400 sq. ft.	1 gal 1.135 l/m ²
Mixing Ratio by Volume	1A : 2B
Dry Film Thickness, Per coat @ ½ gal. per ft ²	4 ± 1 mils 102 ± 25 mic
Pot Life at 75°F (24°C), 50%RH	20-30 minutes
Hardness, ASTM D-2240	70 ± 5 D
Specific Gravity, Part-A	1.23
Part-B	1.65
Total Solids, Weight, ASTM D-2369	100%
Total Solids, Volume, ASTM D-2697	100%
Viscosity at 75°F (24°C), Part-A	200 ± 100 cps
Part-B	4000 ± 500cps
Volatile Organic Components,	0 lbs/gal
ASTM D-2369-81	0 lbs/gal 0 gm/liter

STORAGE

Themecoat™ 112 has a shelf life of one (1) year from date of manufacture in original, factory sealed containers.

Part-A and Part-B must be stored above 60°F (15°C).

Avoid freezing temperatures.

Store containers on wooden pallets to avoid direct contact with the ground.

LIMITATIONS

Not UV stable.

Cannot withstand direct wear or abrasion.

Containers that have been opened must be used as soon as possible.

Themecoat™ 112 is difficult to clean up after it has cured.

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

WARNING

This product contains Isocyanates.

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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