



**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/m<sup>2</sup>). 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 0.10 l/m <sup>2</sup>
Mixing Ratio by Volume .....	1A : 2B
Dry Film Thickness, Per coat @ 2 gal. per ft <sup>2</sup> .....	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.

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***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**

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Polycoat Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Polycoat Products reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

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