



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

**THEMECOAT® 756**  
*Two Component Modified  
Polyurea Protective Coating  
Technical Data Sheet*

**DESCRIPTION**

Themecoat® 756 is a two component, 1:1 mix, 100% solids, fast set, liquid applied, modified polyurea liner system for metal, concrete, fiberglass and wood surfaces.

**FEATURES**

- ❖ Seamless
- ❖ Tough and Elastomeric
- ❖ Chemical Resistant
- ❖ Low Temperature Flexibility
- ❖ Abrasion and Impact Resistant
- ❖ High Build
- ❖ Quick Drying

**TYPICAL USES**

- ❖ Encapsulation of Fiberglass Bodies and Polystyrene Foams
- ❖ Decorations
- ❖ Tree Barks
- ❖ Architectural Shapes

**COLOR**

Neutral or Black. Custom colors are available upon request. Additional charges may apply.

**PACKAGING**

10 gallon kit: 5 gallons (47 lbs. net) Part-A and 5 gallons (43 lbs. net) Part-B.

106 gallon kit: 53 gallons (500 lbs. net) Part-A and 53 gallons (454 lbs. net) Part-B.

**MIXING:**

Themecoat® 756 may not be diluted under any circumstances. Thoroughly mix Themecoat® 756 Side-B Base material with air driven power equipment until a homogeneous mixture and color is obtained.

Side-B base material must be thoroughly agitated until a homogenous mixture is obtained. Do not allow air to be incorporated into the product. Total suspension must be achieved. Side-A Isocyanate requires no mixing.

**APPLICATION**

Themecoat® 756 Side-A and Side-B materials should be preconditioned at 75-80°F before application.

Themecoat® 756 should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Hydra Cat, Gusmer or other equivalent machine may be used.

Both Side-A and Side-B materials should be sprayed at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times.

**TECHNICAL DATA**

Mix Ratio, by volume .....	1A:1B
Pot Life at 150-160°F .....	3-5 seconds
Tack Free Time (150 mils) .....	20-40 seconds
Recoat Time .....	0-12 hours
Viscosity at 150-160°F (65.5-71°C), Brookfield,	
Part-A .....	120 ± 20 cps
Part-B .....	200 ± 20 cps
Density (Side-A & B Combined) .....	9.0 lbs/gal
Flash Point .....	>200°F
Hardness, ASTM D-2240* .....	85 ± 5 Shore A
Tensile, ASTM D-412* .....	1500 ± 300 psi
Elongation, ASTM D-412* .....	200 ± 20%
Tear, ASTM D-624* .....	200 ± 20 pli
Service Temperature .....	-20°F to 250°F

(\*These physical properties from sample sprayed with Graco Hydra Cat 200 @ 2000 psi minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F. Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

**COVERAGE**

Themecoat® 756 may be applied at any rate to achieve desired thickness. Theoretical coverage per gallon is 1600 sq. ft. at 1 mil.

**SURFACE PREPARATION**

In general, coating performance and adhesion are directly proportional to surface preparation. All surfaces must be free of oil, grease, dirt and other contaminants.

**Concrete:** Remove all contaminants such as oil, grease, dirt, form oil residue, wax or any other chemical product prior to proceeding with surface preparation. The surface should be free of voids, pot holes or bug holes, loose or weak concrete and the necessary surface profile must be achieved as listed below to ensure proper adhesion and good surface appearance.

Abrasive blast using brush blast technique or better to achieve 1.5-3 mil anchor profile.

Vacuum to remove dust, etc., prior to application of primer.

Use fiberglass (C-Veil Glass) or a geotextile cloth to bridge cracks over the primed surface.

Primer is always recommended to take care of voids, pot holes or bug holes etc.

## STORAGE

Themecoat® 756 has a shelf life of six (6) months from date of manufacture in original, factory sealed containers.

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

Avoid freezing temperatures for an extended period of time.

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

If stored for a long period of time, rotate Side-A and Side-B drums regularly.

## LIMITATIONS

Due to its aromatic composition, Themecoat® 756 will tend to yellow or darken in color after exposure to UV light. Themecoat® 756 may be topcoated with aliphatic polyurethane coating for a color-fast glossy finish.

Do not open until ready to use.

Both Side-A and Side-B containers must be fitted with a desiccant device during use.

## WARNING

This product contains Isocyanate and Curative Material.

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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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