



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

## THEMECOAT® 1752

*Two Component Aromatic Hybrid  
Polyurethane Hard Coat  
Technical Data Sheet*

### DESCRIPTION

Themecoat® 1752 is a fast set, rapid curing, aromatic, two component, hybrid polyurea/polyurethane spray designed to be applied over EPS, wood and many other surfaces. It's excellent balance of stiffness and impact resistance provides excellent plastic "shell-like" protection for delicate foams and EPS. Themecoat® 1752's chemical design allows fast "user-friendly" application with excellent flow and appearance.

### FEATURES

- ❖ Plastic "Shell-Like" Protection
- ❖ 100% Solids
- ❖ Excellent Thermal Stability
- ❖ Excellent Chemical Protection
- ❖ Excellent Cold Temperature Impact
- ❖ Low Shrinkage
- ❖ Zero VOC
- ❖ Fast Cure
- ❖ High Productivity
- ❖ High Gloss

### TYPICAL USES

- ❖ EPS Hard Coat Surface Protection
- ❖ Decorations
- ❖ Architectural Shapes

### COLORS

Neutral. Custom colors are available upon request.

### PACKAGING

100 gallon kit: One 50 gallon drum of Part-A and one 50 gallon drum of Part-B.

### COVERAGE

Themecoat® 1752 should be applied in thin passes to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

### SURFACE PREPARATION

Remove all contaminant, oil and grease from substrate.

### MIXING

Themecoat® 1752 may not be diluted under any circumstances. Thoroughly mix Themecoat™ 1752 Part-B Base material with air driven power equipment until a homogeneous mixture and color is obtained.

### APPLICATION

Themecoat® 1752 should be applied using a 1:1 plural component equipment capable of developing a minimum of 2000 psi (13.8 MPa) and heating the individual component to **170°F (77°C)** using an impingement gun.

Hose temperature should be maintained at **160-170°F (72-77°C)**. The Themecoat® 1752 material should be preheated to **75-85°F (24-29°C)**.

Themecoat® 1752 should be sprayed in multidirectional passes for a proper uniform thickness.

### TECHNICAL DATA

Mix Ratio by Volume .....	1A : 1B
Pot Life @ 150°F .....	2-4 seconds
Tack Free Time (150 mils thick) .....	60-120 seconds
Recoat Time .....	0-12 hours
Viscosity at 150-160°F (66.5-71°C), Brookfield:	
Part-A .....	90 ± 20 cps
Part-B .....	160 ± 20 cps
Density (Side A & B Combined) .....	9.03 lbs/gal
Flash Point .....	>200°F
Hardness, ASTM D-2240 .....	75 ± 5 D
Tensile Strength, ASTM D-412* .....	3700 ± 200 psi
Elongation, ASTM D-412* .....	40% ± 20%
Tear, Die "C" ASTM D-624* .....	450 ± 50 pli
Service Temperature .....	-20°F to 250°F

(\*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi (13.8 MPa) minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F (65-71°C). Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

### EQUIPMENT CLEAN UP

Equipment should be cleaned with an environmentally safe, urethane-grade solvent (alcohol free) as permitted under local regulations immediately after use.

### STORAGE

Themecoat® 1752 has a shelf life of six (6) months from date of manufacture in factory sealed containers.

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

Avoid freezing temperatures.

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

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

Do not open until ready to use.

### WARNING

This product contains Isocyanates 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.***

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