



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

THEMECOAT™ 2772
*Two Component Aromatic Hybrid
Polyurethane Hard Coat
Technical Data Sheet*

DESCRIPTION

Themecoat™ 2772 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™ 2772'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 Resistance Impact
- ❖ Higher Stiffness than Themecoat™ 1752
- ❖ Low Shrinkage
- ❖ Zero VOC
- ❖ Fast Cure
- ❖ High Productivity

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™ 2772 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™ 2772 may not be diluted under any circumstances. Thoroughly mix Themecoat™ 2772 Part-B Base material with air driven power equipment until a homogeneous mixture and color is obtained.

APPLICATION

Themecoat™ 2772 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™ 2772 material should be preheated to **75-85°F (24-29°C)**.

Themecoat™ 2772 should be sprayed in multidirectional passes for a proper uniform thickness.

TECHNICAL DATA

Mix Ratio by Volume	1A : 1B
Pot Life	3-5 seconds
Tack Free Time	60-120 seconds
Recoat Time	0-6 hours
Viscosity at 150-160°F (66.5-71°C), Brookfield:	
Part-A	100 ± 20 cps
Part-B	160 ± 20 cps
Density (Side A & B Combined)	9.05 lbs/gal
Flash Point	>200°F
	>93.3°C
Hardness, ASTM D-2240	75 ± 5 D
Tensile Strength, ASTM 412-C	4000 ± 200 psi
	27.6 ± 1.4 MPa
Elongation, ASTM 412-C	20% ± 5%
Tear, ASTM 624-C	450 ± 50 pli
Service Temperature	-20°F to 250°F
	-290°C to 121°C

(Results based on lab drawn film)

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™ 2772 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.

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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