



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

**THEMECOAT™ 252**  
Waterborne Aliphatic Polyurea  
Urethane Hybrid Topcoat  
*Technical Data Sheet*

**DESCRIPTION**

Themecoat™ 252 is a waterborne polymeric dispersion of UV-stable aliphatic polyurea, and aliphatic polyurethane polymers. This waterborne coating has been specially formulated as a durable, color-stable, abrasion resistant coating for concrete and masonry surfaces.

**FEATURES**

- ❖ Water Borne
- ❖ Good Color Retention
- ❖ Excellent Weatherability
- ❖ Good Stain Resistance
- ❖ Excellent Adhesion
- ❖ UV Stable
- ❖ Fast Dry
- ❖ Low Odor

**TYPICAL USES**

- ❖ Interior / Exterior Protection
- ❖ Speaker Box

**COLORS**

Clear in Gloss or Matte Finish

Custom colors are available upon request with minimum quantity of 100 gallons and additional cost may apply.

**PACKAGING**

- 1 gallon (3.78 liter) can
- 5 gallon (19 liter) pail
- 55 gallon drum, net fill 50 gal (189 liters)

**MIXING**

Before application, mix Themecoat™ 252 using a mechanical mixer (Jiffy Mixer) at slow speeds or by hand for at least 5 minutes. Mix Themecoat™ 252 thoroughly until a homogeneous mixture and color is obtained.

**APPLICATION**

Apply to surfaces at temperatures between 60°F (15°C) and 90°F (32°C).

The first coat of Themecoat™ 252 should be applied at the rate of 0.16 liters/square meter (1 gallon/250 square feet). For best results, airless sprayer or phenolic core roller may be used, but extra care should be taken not to cause air bubbles. Apply Themecoat™ 252 evenly over the entire deck resulting in 2 ± 0.5 dry mils (50 ± 10 microns). After 1-2 hours at 75°F, proceed to the second coat.

Themecoat™ 252 may require more than one coat depending on the job specifications and requirements. When estimating material requirements, coverage rates tend to increase for subsequent coats of material. To obtain proper adhesion between coats it is imperative that re-coating be done within 6 hours.

**TECHNICAL DATA**

Coverage Rate .....	1 gal/ 250 sq.ft. 0.16 l/m <sup>2</sup>
Dry Film Thickness, exclusive as aggregate	
Per coat @ 1 gal/250 sq. ft .....	2 ± 0.5 mils 50 ± 10 micron
Pencil Hardness, ASTM D-2240 .....	2 H
Tear Resistance, Die C, ASTM D-624 .....	600 ± 50 pli 105 ± 8.7 kNm
Tensile Strength, ASTM D-412 .....	4500 ± 300 psi 31 ± 2 MPa
Ultimate Elongation, ASTM D-412 .....	120 ± 20%
Specific Gravity .....	1.01
Total Solids by Weight, ASTM D-2369 .....	31.6%
Total Solids by Volume, ASTM D-2697 .....	31.2%
Viscosity at 24°C (75°F) .....	66 ± 5 KU
Volatile Organic Compounds	
ASTM D-2369-81 .....	1.67 lb/gal 199 gm/liter

**CURING**

At 75°F (24°C) and 50% relative humidity, allow Themecoat™ 252 to cure a minimum of 1-2 hours between each coat. If more than 6 hours passes between coats, re-prime the surface.

Allow 4-6 hours before permitting light pedestrian traffic and at least 72 hours before permitting heavy pedestrian or vehicular traffic on to the finished surface.

Uncured Themecoat™ 252 is very sensitive to heat and moisture. Higher temperatures and/or low humidity will accelerate the cure time. Use caution in batch sizes and thickness of application.

Low temperature and/or high humidity extend the cure time.

**EQUIPMENT CLEANUP**

Equipment can be cleaned with soapy water before the coating dries. If the coating is left to dry it is very difficult to remove.

**STORAGE**

Themecoat™ 252 has a shelf life of one (1) year from date of manufacture in original, factory sealed containers.

**LIMITATIONS**

**DO NOT** allow Themecoat™ 252 to freeze. It is not freeze/thaw stable. For best shelf life store between 40°F and 100°F.

Surfaces must be dry, clean and free of foreign matter. Surface may be slippery when wet.

Themecoat™ 252 has good chemical resistance properties.

Do not dilute under any circumstance.

Refer to general guidelines for more information.

**WARNING**

**This product contains Solvent.**

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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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