



# POLYCOAT PRODUCTS

A Division of American Polymers Corp.

## THEMECOAT™ 215 Aliphatic Polyester Polyurethane Topcoat Technical Data Sheet

### DESCRIPTION

Themecoat™ 215 is a two component, aliphatic polyester polyurethane for use in moderate to severe chemical environments in indoor or outdoor applications.

### FEATURES

- ❖ Color and Gloss Retention
- ❖ Impact Resistant
- ❖ Chemical Resistance

### TYPICAL USES

- ❖ Finish coat over Themecoat™ Hard Coat Systems
- ❖ Decorations
- ❖ Architectural Shapes

### COLOR

Grey or Clear with a High Gloss finish. Custom colors are available upon request.

### PACKAGING

5 gallon kit (18.9 liter):

Clear Kits: One 5 gallon pail, net fill 2.2 gallons (8.3 liters) of Part-A and one 5 gallon pail, net fill 2.8 gallons (10.6 liters) of Part-B.

Pigmented Kits: One 5 gallon pail, net fill 2 gallons (7.6 liters) of Part-A and one 5 gallon pail, net fill 3 gallons (11.3 liters) of Part-B.

1 gallon kit (3.78 liter):

Clear Kits: One 1 gallon can, net fill 0.44 gallons (1.66 liters) can containing Part-A and one 1 gallon can, net fill 0.56 gallons (2.12 liters) containing Part-B.

Pigmented Kits: One 1 gallon, net fill 0.40 gallons (1.51 liters) can containing Part-A and one 1 gallon can, net fill 0.60 gallons (2.27 liters) containing Part-B.

### SURFACE PREPARATION

Remove all contaminant, oil and grease from substrate.

Surface temperature should be between 60-100°F (16-38°C). Do not apply product unless temperature is at least 5° above the dewpoint. Re-coat schedule is 8-48 hours depending on the environment.

### MIXING

Themecoat™ 215 may not be diluted under any circumstance. Themecoat™ 215 Part-A and Part-B should be mixed individually before combining. Add Part-B to Part-A while mixing, using a mechanical mixer (Jiffy Mixer) at medium speeds. Mix until a homogeneous mixture and color is obtained (at least 5 minutes) and mix frequently during application to maintain uniform color. Use care to scrape the sides of the container to ensure that no unmixed material remains.

### TECHNICAL DATA

Coverage Rate, per 100 sq. ft. ....	0.5 gal 0.20 l/m <sup>2</sup>
Dry Film Thickness, Per coat @ ½ gal. per ft <sup>2</sup> .....	5 ± 2 mils 127 ± 50 mic
Pot Life at 75°F (24°C) .....	60-75 minutes
Flash Point .....	91°F 32.7°C
Total Solids by Volume, ASTM D-2697 ....	63%
Volatile Organic Compounds, ASTM D-2369-81 .....	2.8 lbs/gal. 337 gm/liter

### CHEMICAL RESISTANCE (ASTM D-814)

<u>Excellent</u>	<u>Good</u>	<u>Fair</u>	<u>Poor</u>
Distilled Water	Unleaded	Hexanol	IPA, 99%
Skydrol	Gasoline	Acetone	Butanol
Skydrol Jet Fuel		MEK	
Hydraulic oil		MIBK	
Motor Oil		Butyl Acetate	
		Toluene	
		Xylene	

### APPLICATION

Check area of application to ensure that it conforms to the substrate requirements as stated in the general guideline section. Prime interior and exterior floors and slabs .

Apply mixed Themecoat™ 215 to the substrate at a rate of ½ gallon/100 sq. ft. (1.9 liters/m<sup>2</sup>). Additional coats may be necessary to achieve desired results.

Themecoat™ 215 is a high-performance coating and may become slippery when wet.

Airless Sprayer: Use Graco 28:1 pump or higher, Binks "Airless" spray gun with Reversa-Clean 0.017-0.019 spray tips and a" solvent resistant fluid line. Adjust pump pressure to the lowest possible setting that provides proper atomization. Equipment of equal performance is acceptable.

Conventional Spray: Variations of conventional production spray equipment such as pressure pot, air assisted airless or high volume, low pressure systems as supplied by Binks, Graco, Nordson, Devilbiss or equal may be used.

Brush: Use solvent resistant mohair or natural bristle brush with feather edge.

Roller: Use solvent resistant phenolic core, short nap sheepskin or equal natural roller covers.

## STORAGE

Themecoat™ 215 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

Themecoat™ 215 should not be applied in areas where the surface will come into continual contact with water.

The uncured materials used in Themecoat™ 215 are very sensitive to heat and moisture. Higher temperature and/or high humidity will accelerate the cure time. Use caution in batch sizes and thickness of application. Low temperature and/or low humidity extends the cure time and the use of accelerators may be necessary.

Each application phase to an area should be done in one complete step. A continuous application will ensure a smooth and level coat with no lines or streaks.

Material remaining after application must be tightly sealed to protect it against curing in its container.

## WARNING

This product contains Isocyanates and Solvent.

This product is considered Dangerous Goods. DOT regulations classify it as: **UN 1263, PAINT, Class 3, PG III, FLAMMABLE LIQUID.**

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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

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