



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 ²
Dry Film Thickness, Per coat @ 2 gal. per ft ²	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 2 gallon/100 sq. ft. (1.9 liters/m²). 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.**

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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