



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

THEMECOAT® 205

*Two Component, Arcylic Aliphatic
Matte Finish Topcoat
Technical Data Sheet*

DESCRIPTION

Themecoat® 205 is an UV resistant plural component, 1:3, solvent based, quick curing, liquid applied, aliphatic polyurethane topcoat. It is designed to provide a high level of UV protection.

FEATURES

- ❖Excellent Water Resistance ❖Excellent Weathering
- ❖Protects from Color Change
- ❖Refinish Previously Applied Topcoats

TYPICAL USES

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

COLOR

Neutral.

PACKAGING

4 gallon kit: One 1 gallon (3.78 liter) can of Part-A and three 1 gallon (3.78 liter) cans of Part-B, each containing 1 gallon.

SURFACE PREPARATION

Remove all contaminant, oil and grease from substrate.

MIXING

The volume mixing ratio for Themecoat® 205 is 1 part Part-A to 3 parts Part-B .

Themecoat® 205 Part-A and Part-B should be thoroughly mixed individually prior to combining to ensure a homogeneous material. The combined components should be thoroughly mixed using a mechanical mixer at slow speed or for at least 5 minutes if mixed by hand. Once the components are thoroughly mixed together, wait for at least 10-15 minutes before beginning application.

APPLICATION

Themecoat® 205 should be applied at the rate of 1 gallon per 300 sq. ft. (0.135 liters/m²). It can be applied using an airless sprayer, brush, or phenolic resin core roller.

Start applying the topcoat on the vertical surfaces/sides first from top to bottom and then the horizontal surfaces/floors to have an even uniform application.

A normal application requires two coats. A third coat may be necessary for maximum protection. Proper care should be taken to ensure complete coverage of each coat without voids or pinholes. If applied too thick, the coating may bubble.

Allow Themecoat® 205 to dry completely. Normal cure time is 4-8 hours. Lower temperatures will extend cure time.

TECHNICAL DATA

Coverage Rate	1 gal/350 ft ² 0.143 l/m ²
Mix Ratio by Volume	1A : 3B
Pot Life, 75°F(24°C), 50% R.H.	6 hours
Tack Free Time, 80°F (27°C)	30-40 minutes
Recoat Time, 80°F (27°C)	1-8 hours
Viscosity, 75°F (24°C), Brookfield, Part-A & B Combined	100 ± 50 cps
Pencil Hardness	2 H
Dry Film Thickness per Coat	5 ± 1 mils 127 ± 25 microns
Total Solids by Weight, ASTM D-2369 ...	38.9%
Total Solids by Volume, ASTM D-2697 ..	34.1%
Volatile Organic Compounds, ASTM D-2369-81	5 lb/gal 600 gm/liter
Flexibility, D-1757 8" Mandrel Bend Test	Passes
Accelerate Weathering.....	No Cracking, Chalks or Loss of Property after 2000 hours

STORAGE

Themecoat® 205 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

Surfaces must be dry, clean and free of foreign matter.

Containers that have been opened must be used as soon as possible.

Themecoat® 205 is difficult to clean up after it has cured.

Do not dilute under any circumstance.

WARNING

This product contains Isocyanate.

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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