



PRODUCT DESCRIPTION

Themecoat® 757-FR is a Class 1 fire-rated, two component, 1:1, 100% solids, elastomeric, fast set, liquid applied, modified polyurea liner system for EPS, metal, concrete, fiberglass and wood surfaces.

FEATURES

- Abrasion and Impact Resistant
- Chemical Resistant
- High Build
- Low Temperature Flexibility
- Meets ASTM E-84 Class 1 Fire Test Criteria
- Quick Drying
- Seamless
- Tough and Elastomeric

TYPICAL USES

- Cargo Holds
- Cargo liners
- EPS Architectural Shapes
- Industrial Floorings
- Truck Bed Surfaces
- Utility Vehicles
- Walkways
- Waterproof Decking

PACKAGING

10-gallon kit: 5 gallon (18.9 liters) pail of Side-A, 5 gallon pail (net fill 4.5 gal, 17 liters) of Side-B and 1 gallon can (net fill 0.5 gal, 3.78 liters) of Side-C.

100-gallon kit: One 50 gallon (189 liters) drum of Side-A), one 50 gallon drum (net fill 45 gal, 170 liters) of Side-B and one 5 gallon pail of Side-C (18.9 liters).

COLOR

Dolphin Gray. Custom colors are available upon request. Color Packs, when used, must be added to Side-B. Due to its aromatic composition, Themecoat® 757-FR will tend to yellow or darken in color and will become flat after exposure to UV light. Themecoat® 757-FR may be topcoated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

MIXING

Themecoat® 757-FR may not be diluted under any circumstances. Thoroughly mix Themecoat® 757-FR Side-A, Side-B and Side-C with air driven power equipment until a homogeneous mixture and color is obtained.

For a 10 gallon kit (37.8 liters), mix for 5 minutes. For a 100 gallon (378 liters) kit, mix for 20 minutes.

COVERAGE

Themecoat® 757-FR may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sqft (3.78 liters per 149 sqm).

SURFACE PREPARATION

In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor

TECHNICAL DATA (Based on Draw Down Films)

Mix Ratio	1A : 1B
Pot Life	3-6 seconds
Tack Free Time	10-30 seconds
Recoat Time	0-12 hours
Viscosity at 150-160°F (66.6-71°C), Brookfield:	
Side-A	150 ± 50 cps
Side-B	200 ± 20 cps
Density (Side A & B Combined)	13.03 lbs/gal (1560 kgs/m ³)
Flash Point	>200°F (>93.3°C)
Hardness, ASTM D-2240*	50 ± 5 Shore D
Tensile, ASTM 412-C*	1600 ± 200 psi (11 ± 1.4 MPa)
Elongation, ASTM 412-C*	45% ± 20%
Tear, ASTM 624-C*	350 ± 20 pli (62 ± 3.5 kN/m)
Service Temperature - Dry	-20 to 250°F (-29°C to 121°C)

(*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi (32 MPa) minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F (66-72°C). Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. Polycoat recognizes the potential for unique substrates from one project to another. The following information is for general reference, and for project-specific questions, contact Polycoat.

NEW AND OLD CONCRETE:

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shotblasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, Polycoat Products PC-260 or a mixture of Polyprime® 21 and sand should be used as a repair agent for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.

CONCRETE SURFACE PREPARATION REFERENCE:

ASTM D4258 - Standard practice for cleaning concrete
ASTM D4259 - Standard practice for abrading concrete
ASTM D4260 - Standard practice for etching concrete
ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete
ICRI 03732 - Concrete surface preparation

WOOD:

All wood should be clean, dry and free of any knots, splinters, oil, grease or other contaminants. Splintered or rough areas should be sanded. Knots should be repaired using Polycoat Products PC-260 with sand. Upon full cure of the repair agent, prime the entire surface intended for coating.

STEEL (ATMOSPHERIC AND IMMERSION EXPOSURE):

Remove all oil, grease, weld spatters and round off any sharp edges from surface. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 2-3 mils (50-75 microns). Prime and shoot Themecoat® on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

ALUMINUM:

Aluminum should be blasted with aluminum oxide or sand, and not with steel or metal grit. Excessive blasting may result in a warped or deformed surface. After blasting, wash aluminum with a commercially available aluminum cleaner. Allow to dry, then prime.

BRASS AND COPPER:

Brass and copper should be blasted with sand, and not with steel or metal grit. Remove all dust and grease prior to applying primer.

GALVANIZED SURFACES:

Clean and degrease any contaminated surfaces before priming. Do not blast galvanized surfaces with an abrasive grit. An adhesion test is recommended prior to starting the project.

FIBERGLASS REINFORCED PLASTIC:

The gel coat should be lightly blasted or sanded with 80 grit sandpaper and cleaned.

PLASTIC FOAMS:

Enhanced adhesion is obtained when the foam is mechanically abraded. When coating polystyrene, do not use a solvent-based primer.

TEXTILES, CANVAS, FABRICS

Adhesion to most fabrics, geothermal membranes and textiles does not require a primer.

STAINLESS STEEL:

Stainless steel may be grit blasted and degreased before priming. Some stainless steel alloys are so inert that it is not possible to achieve a satisfactory bond. An adhesion test is recommended prior to starting the project.

NEW AND OLD CAST IRON:

Blast with a steel grit and degrease before priming. Old cast iron is difficult to prepare for a satisfactory bond. It can absorb oil and water soluble contaminants that will keep returning to the surface after the coating system has been applied and affect the coating system adhesion. An adhesion test is recommended prior to starting the project.

ALL OTHER SURFACES:

An adhesion test is recommended prior to starting the project.

APPLICATION

Both Side-A and Side-B materials should be preconditioned.

The Themecoat® 757-FR material should be preheated to 90-100°F (32-38°C) before application.

Both Side-A and Side-B materials should be continuously agitated before and during application. Agitate at least one hour prior to application using heavy duty drum agitator.

Both Side-A and Side-B lines must have filters removed. Use a round pattern disc for spraying. Orifice diameter must be 0.042" (0.11 cm) or greater.

Recommended surface temperature must be at least 5°F (3°C) above the dew point.

Themecoat® 757-FR should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or other equivalent machine may be used.

Both Side-A and Side-B materials should be sprayed at a minimum of 2000 psi (14 MPa) and at temperatures above 150°F (65°C) Adequate pressure and temperature should be maintained at all times.

Themecoat® 757-FR should be sprayed in smooth, multi-directional passes to improve uniform thickness and appearance.

STORAGE

Themecoat® 757-FR has a shelf life of six (6) months from date of manufacture, in factory-sealed containers.

Side-A and Side-B drums are recommended to be stored above 60°F (15.6°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 Side-A and Side-B drums regularly.

DO NOT STORE OUTSIDE

LIMITATIONS

Do not open until ready to use. Both Side-A and Side-B containers must be fitted with a desiccant device during use.

WARNING

This product contains Isocyanates and Curative Material.

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