



PRODUCT DESCRIPTION

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

FEATURES

- Abrasion and Impact Resistant
- Chemical Resistant
- High Build
- Low Temperature Flexibility
- Quick Drying
- Seamless
- Tough and Elastomeric

TYPICAL USES

- Boat Linings
- Cargo Holds
- Cargo liners
- Containment Areas
- Encapsulation of Fiberglass Bodies and Polystyrene Foams
- Horse Trailers
- Industrial Floorings
- Truck Bed Surfaces
- Utility Vehicles
- Walkways
- Waterproof Decking

PACKAGING

10-gallon kit: 5 gallon (47 lbs. net) pail of Side-A, 5 gallon pail (43 lbs. net) of Side-B

100-gallon kit: One 50 gallon (477 lbs. net) drum of Side-A, one 50 gallon drum (420 lbs) of Side-B

COLOR

Clear/Neutral. Custom colors are available upon request. Color Packs, when used, must be added to Side-B.

Due to its aromatic composition, Themecoat® 757 will tend to yellow or darken in color and will become flat after exposure to UV light. Themecoat® 757 may be topcoated within twelve hours of application with an aliphatic polyurethane/polyurea coating for a colorfast finish.

COVERAGE

Themecoat® 757 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sqft.

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 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

TECHNICAL DATA (Based on Draw Down Films)

Mix Ratio by Volume	1A : 1B
Pot Life	5-10 seconds
Tack Free Time	40-60 seconds
Recoat Time	0-6 hours
Viscosity at 150-160°F (66.5-71°C) , Brookfield:	
Side-A	160 ± 20 cps
Side-B	40 ± 20 cps
Density (Side A & Side B Combined)	8.55 lbs/gal (1020 kg/m³)
Flash Point	> 200°F (93.3°C)
Hardness, ASTM D-2240	90 ± 5 Shore A
Tensile Strength, ASTM D-412*	3200 ± 300 psi (22.04 ± 2.07 MPa)
Elongation, ASTM D-412*	450 ± 50%
Tear, ASTM D-412*	325 ± 50 pli (56.82 ± 8.74 kNm)
Service Temperature	
Dry	-40 to 250°F (-40° to 121°C)
Wet	40° to 120°F (4.4 to 49°C)
VOC Content	0 gm/l
Recommended Applied Thickness	>2 mm
Return to Service:	
Foot Traffic	2-4 hours
Full Service	10-24 hours
Taber Abrasion Resistance, ASTM D44060 (CS17 wheel, 1000 cycles, 1kg load)(maximum)	33 mg loss
Water Asorption, ASTM D471 (Maximum 74°F [23°C], 24 hours)	<1.0
Crack Bridging, ASTM C836 (-13°F [-25°C], 1.6mm crack 25 Cycles)	Pass
Pull off Strength (Minimum) ASTM D4541 Inter-Coat Adhesion (Within recoat time) Concrete (Shot-blasted profile) Substrate Failure Concrete (Primed) Substrate Failure at Steel (um blast profile)	Excellent >500 psi (3.5 MPa) >500 psi (3.5 MPa) >900 psi (>6.2 MPa)
Lineal Shrinkage	1-2%
Flexibility (3mm Mendrel Bend Test) ASTM D1737	PASS

recognizes the potential for unique substrates from one project to another. The following information is for general reference. For project-specific questions, contact Polycoat.

NEW AND OLD CONCRETE

Refer to SS PC-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 D425 8 - 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 3-4 mils (75-100 microns). Prime and shoot Polyeuro® onto any bare metal the same day as it is cleaned to minimize any potential flash rusting.

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. Contact Polycoat Products for recommended primer. 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.

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. Contact Polycoat Products for

recommended primer.

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.

MIXING

Themecoat® 757 may not be diluted under any circumstances. Thoroughly mix Themecoat® 757 Side-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

APPLICATION

Both Side-A and Side-B materials should be preconditioned to 75-80°F (24-32°C) before application.

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

Themecoat® 757 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 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

STORAGE

Themecoat® 757 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°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.

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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