

Iso-Flex® Plywood Deck Coating System

PRODUCT DESCRIPTION

Iso-Flex Plywood Deck systems utilize the latest in nanotechnology ensuring advanced performance. The system is a liquid applied, urethane elastomeric deck membrane with integral skid resistance designed for use under direct exposure to pedestrian traffic. All Iso-Flex deck coating systems are attractive and durable, and are designed to protect the deck surface from water and/or chloride penetration.

The Iso-Flex Plywood Deck system consists of one-part elastomeric urethane membrane bonded continuously to the substrate for protection against water damage, and one or more urethane traffic topping coats with encapsulated aggregate for skid resistance. Recommended mil thickness of the systems will vary depending upon intended service conditions.

BASIC USES

Application for Iso-Flex Plywood Deck coating systems are intended for wood framed plywood surfaces that will be subject to pedestrian traffic such as balconies and walkways.

ADVANTAGES

- The Iso-Flex Plywood Deck coating system can be applied with a two-step process, enabling rapid turn around and minimal inconvenience.
- The Iso-Flex Plywood Deck coating system is impervious to water and/or chloride penetration and, with aliphatic top coat materials, is color-fast even in severe UV exposure.
- Advanced nanotechnology in the “780 Plus” base coat material eliminates the need for priming. Field adhesion tests are recommended prior to actual application.

TECHNICAL DATA FROM LABORATORY TESTS

(Field Properties may Vary)

Property	Test Method	780 Base Coat	750 AL Top Coat
Weight		9.3 lbs/gal.	9.0 lbs/gal.
Hardness (Shore A)	ASTM D2240	60-70	80-90
Viscosity @ 77°F(25°C)	ASTM D2196 #4 RVT @ 20 rpm	3000-6000 cps	1500-3000 cps
Flash Point	ASTM D93	110°F (43.3°C)	110°F (43.3°C)
Cure Time @ 77°F(25°C)	ASTM C920	24 hours	24 hours
Abrasion Resistance	ASTM D4060 Tabor 1000 rev CS17 Wheel, 1000 grams	Loss 0.01 grams	Loss 0.03 grams
Weathering Resistance	ASTM G53-83	Yellowing	No Visual Effect
Permeability	ASTM E398	1.6 perms	1.6 perms
Peel Adhesion	ASTM C794	30 pli	n/a
Tensile Strength	ASTM D412	1200 psi	2500 psi
Ultimate Elongation	ASTM D412	600%	100%
Tear Resistance	ASTM D1004	800 pli	200 pli
% Yield (Wet→Dry)		86%	80%
Pot Life @ 77°F(25°C)	ASTM C603	1 hour	1-2 hours
Shelf Life @ 77°F(25°C)	(in sealed containers)	6 months	6 months
Chemical Resistance	No effect on System from Common Oils, Salts, Alkalis, Motor Oil, Anti-Freeze, Gasoline, Mineral Spirits.		

LIMITATIONS

- Iso-Flex Plywood Deck coating system is designed for application in relatively thin mil film thicknesses.
- The coating develops a chemical bond to the primed plywood substrate to which it is applied. Sealers, moisture etc., may interfere with good adhesion. Therefore, surfaces to receive the product should be free of these and other potential contaminants.
- Plywood must be a marine or exterior grade product. Moisture content should be verified and must be less than 3%. All connections should be tongue-and-groove and should be treated with urethane sealant. All fasteners shall be non-corroding screw type.
- Application must be to clean, sound, dry substrates at temperatures above 40° F (5° C).
- Adequate ventilation, as recommended by the manufacturer, must be provided in application areas.

PACKAGING

Iso-Flex Base Coat and Top Coats are available in handy 1 gallon packaged kits that include aggregate for an 80 SqFt project, as well as in 5 and 55 gallon containers.

STANDARD COLOR

Concrete Grey (*See color chart for other standard colors*)

INSTALLATION

Preliminary: Surfaces to receive the Iso-Flex coating system must be clean, dry, sound, relatively smooth and free of voids, ridges and sharp projections.

Plywood Deck Application Guide: Refer to the Iso-Flex “Plywood Deck Application Guide” for specific surface preparation and application requirements.

	<u>MVT</u>	<u>HVT</u>
Base Coat	20 mils	20 mils
780 Plus		
Base Coat		
Wear Course I	15 mils	15 mils
750 TCAL		
Sand (12/20 grit)	6-8 lbs/100 ft ²	10 lbs/100 ft ²
Wear Course II		15 mils
750 TCAL		
Sand (12/20 grit)		10 lbs/100 ft ²
Total	35 mils	50 mils

* System millages are dry film thicknesses.

PRECAUTIONS

To ensure safe installation of the Iso-Flex coating system, please refer to the Material Safety Data Sheets (MSDS), that accompany each product shipment.

WARRANTY

LymTal warrants that its products are manufactured free of defects and conform to the technical data listed. Under this warranty we will replace, at no charge, any material proven defective when applied in accordance with our written instructions for applications recommended by us as suitable for subject product. LymTal shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of the product.

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