

Iso-Flex® Reinforced Balcony & Walkway Coating System

PRODUCT DESCRIPTION

Iso-Flex Reinforced Balcony systems are cold, liquid applied, urethane elastomeric deck coating membranes utilizing fabric reinforcement, with skid resistant traffic toppings and are 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 Reinforced Balcony systems consist of one-part elastomeric urethane base membrane bonded continuously to the substrate for protection against water damage. An intermediate reinforcement layer incorporates urethane along with a spunbonded polyester fabric. The protective top coat incorporates urethane with encapsulated aggregate for skid resistance. Recommended mil thickness of the systems will vary depending upon intended service conditions.

BASIC USES

Applications for Iso-Flex Reinforced Balcony coating systems include a wide variety of surfaces that will be subject to pedestrian traffic such as balconies, walkways, mechanical rooms, etc. Other applications may include laundry rooms, kitchens or any facilities where a reinforced waterproof surface is desirable.

ADVANTAGES

- The Iso-Flex Reinforced Balcony coating system can be applied with a three-step process, enabling rapid turn around and minimal inconvenience.
- The Iso-Flex Reinforced Balcony coating system is impervious to water and/or chloride penetration and, with aliphatic top coat materials, is color-fast even in severe UV exposure.
- Adhesion promoters in the base coat material eliminate the need for priming in most applications. Adhesion tests are recommended prior to application.

TECHNICAL DATA FROM LABORATORY TESTS				
(Field Properties may Vary)				
Property	Test Method	780 BC	780 IC	750 AL Top Coat
Weight		9.3 lbs/gal.	9.25 lbs/gallon	9.0 lbs/gal.
Hardness (Shore A)	ASTM D2240	60-70	80-90	80-90
Viscosity @ 77°F(25°C)	ASTM D2196 #4RVT@20rpm	3000-6000 cps	1500-3000 cps	1500-3000 cps
Flash Point	ASTM D93	110°F (43.3°C)	110°F (43.3°C)	110°F (43.3°C)
Cure Time @ 77°F(25°C)	ASTM C920	24 hours	16-24 hours	24 hours
Abrasion Resistance	ASTM D4060 Tabor 1000 rev CS17 Wheel, 1000 grams	Loss 0.01 grams	Loss 0.01 grams	Loss 0.03 grams
Weathering Resistance	ASTM G53-83	Yellowing	Yellowing, Chalking	No Visual Effect
Permiability	ASTM E398	1.6 perms	1.6 perms	1.6 perms
Peel Adhesion	ASTM C794	30 pli	n/a	n/a
Tensile Strength	ASTM D412	1200 psi	2800 psi	2500 psi
Ultimate Elongation	ASTM D412	600%	100%	100%
Tear Resistance	ASTM D1004	80 pli	180 pli	200 pli
% Yield (Wet→Dry)		86%	78%	80%
Pot Life @ 77°F(25°C)	ASTM C603	1 hour	1-2 hours	1-2 hours
Shelf Life @ 77°F(25°C)		6 months	6 months	6 months
Chemical Resistance	No effect on System from Common Oils, Salts, Alkalis, Motor Oil, Anti-Freeze, Gasoline, Mineral Spirits.			
<u>Polyester Fabric</u>				
Breaking Strength. Lbs.	ASTM D2523		25	
Elongation at Break %	ASTM D2523		42	
Tear Strength, lbs.	ASTM D2263		8	
Flex Life, cycles	ASTM D813		>100,000	

LIMITATIONS

- Iso-Flex Reinforced Balcony coating system is designed for application in variable mil film thicknesses.
- The coating develops a chemical bond to the primed substrates to which it is applied. Curing agents, form releases, sealers, etc., may interfere with good adhesion. Therefore, surfaces to receive the product should be free of these and other potential contaminants. Concrete slabs should be water cured or cured with compatible curing compounds approved by the manufacturer. Surface bond tests are recommended to determine possible need for primers.
- 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, Intermediate and Top Coats are available in 5 and 55 gallon containers. Polyester fabric is available in various widths to be determined based on project requirements.

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. New concrete surfaces should be water cured or cured with compatible curing compounds.

Surface Preparation: Shotblasting where possible will provide a sound, clean substrate. In areas where shotblasting is not feasible, sandblasting, or power washing with a spinner or turbo tip is recommended.

	<u>MVT</u>	<u>HVT</u>
Base Coat	20 mils	25 mils
780 Base Coat Intermediate Coat	15 mils	20 mils
780 IC Polyester Fabric	1.35 oz./yd ²	1.35 oz./yd ²
Wear Course 750 TCAL	15 mils	15 mils
Sand (12/20 grit)	6-8 lbs/100 ft ²	6-8 lbs/100 ft ²
Total	50 mils	60 mils

* System millages are dry film thicknesses.

Detailing: Joints or cracks should be pretreated prior to general application by grinding out and sealing or overbanding with compatible Iso-Flex products, as recommended. Terminations and penetrations should also be sealed prior to general application.

Application: The Iso-Flex coating system must be applied in accordance with manufacturer's specific recommendations.

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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