

Iso-Flex® 780/750U Deck Coating System

SYSTEM DESCRIPTION

Iso-Flex 780/750U systems are cold, liquid applied, urethane elastomeric deck coating membranes with integral, urethane, skid resistant traffic toppings that are designed for use under direct exposure to pedestrian and/or vehicular traffic. All Iso-Flex 780/750U traffic deck coating systems are attractive and durable, and are designed to protect the concrete deck surface from water and/or chloride penetration.

Each Iso-Flex 780/750U system consists of a primer (as recommended by the manufacturer), a one part elastomeric urethane membrane bonded continuously to the substrate for protection against water damage and one or more one part urethane traffic topping coats with encapsulated aggregate for skid resistance. Recommended film mil thickness of the systems will vary depending upon intended service conditions.

Standard Iso-Flex 780/750U systems provide effective, economical solutions for most usage conditions.

780/750U MVT For light to medium vehicular traffic (parking stalls)

780/750U HVT For heavy vehicular traffic (drive lanes, ramps, roof decks)

For service conditions exposed to direct sunlight, and to enhance weathering characteristics, an Iso-Flex aliphatic urethane topcoat has to be utilized as the final coat.

In addition to the standard Iso-Flex 780/750U systems, custom systems utilizing increased polymer mil thickness, aggregate variations or special colors to meet the specific requirements of a project, may be developed with the manufacturer.

PACKAGING

Iso-Flex 780 Base Coat and Top Coats are available in 5 gallon (18.9 liter) or 53 gallon (200 liter) units.

STANDARD COLOR

Concrete Gray (*Special colors available upon request.*)

BASIC USES

Typical applications for Iso-Flex 780/750U systems include parking structures, stadiums, mechanical room floors, plazas, roof decks, recreation decks and other concrete, masonry or wood structures.

ADVANTAGES

- The system develops a continuous bond to stated substrates and protects from water and/or chloride penetration. The system is also resistant to most common chemicals.
- The system remains flexible over a wide temperature range and is able to bridge existing non-moving hairline cracks.
- The system requires no additional protection when left exposed to pedestrian and/or normal vehicular traffic.

RECOMMENDED MILLAGES

Recommended mil thickness of Iso-Flex 780/750U systems will vary depending upon service conditions, substrate profile and other environmental factors. While every project is unique, the following chart provides generalized guidelines.

	Dry Mil Thickness*		
	Base Coat	Top Coat	Total
Intermediate Deck			
Parking Stalls	20 mils	15 mils	35 mils
Ramps/Drive Lanes	20 mils	** 30 mils	50 mils
Top Decks			
Parking Stalls	20 mils	15-30 mils	35-50 mils
Ramps/Drive Lanes	20 mils	** 30 mils	50 mils

* System millage requirements do not include primer.

** Topcoat must be applied in 2 increments. Multiple topcoat applications are required for additional thickness.

LIMITATIONS

- Iso-Flex 780/750U systems are designed for application in relatively thin mil film thicknesses. Cured membrane mil thickness variations are to be expected due to small differences in substrate porosity and profile, as well as the practical tolerance limitations of the application procedures.

- Application must be to clean, sound, dry substrates at temperatures above 40°F (5°C).
- Curing compounds, form release agents, sealers, or other contaminants may interfere with adhesion.
- Adequate ventilation must be provided as recommended by the manufacturer.

INSTALLATION

Preliminary: Surfaces to receive Iso-Flex 780/750U systems must be clean, dry, sound, relatively smooth and free of voids, ridges and sharp projections. New concrete surfaces should be properly cured as recommended by manufacturer.

Surface Preparation: Shotblasting must be employed to provide a sound, clean substrate. In areas where shotblasting is not feasible, consult the manufacturer for other methods of surface preparation.

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

Application: The various components of the Iso-Flex 780/750U system shall be applied in accordance with manufacturer's specific recommendations.

PRECAUTIONS

To ensure safe installation of the Iso-Flex 780/750U system, please refer to the Material Safety Data Sheets (MSDS) that accompany each product shipment.

MAINTENANCE

Iso-Flex 780/750U systems may be easily repaired using methods recommended by the manufacturer.

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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TECHNICAL DATA FROM LABORATORY TESTS				
(Field Properties May Vary)				
Property	Test Method	780 BC	750 TC AL	750 TC AR
Weight per Gallon		9.3 lbs/gallon	9.0 lbs/gallon	9.3 lbs/gallon
Hardness (Shore A)	ASTM D2240	60-70	80-90	80-90
Viscosity @ 77°F(25°C)	ASTM D2196 #4 RVT @ 20 rpm	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	24 hours	24 hours
Abrasion Resistance	ASTM D4060 Tabor 1000 rev CS17 Wheel 1000 grams	Loss 0.01 grams	Loss 0.03 grams	Loss 0.03 grams
Weathering Resistance	ASTM G53-83	Yellowing	No Visual Effect	Yellowing
Permeability	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	2500 psi	2500 psi
Ultimate Elongation	ASTM D412	600%	100%	100%
Tear Resistance	ASTM D1004	80 pli	200 pli	200 pli
% Yield (Wet→Dry)		86%	80%	78%
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, Alkalies, Motor Oil, Anti-Freeze, Gasoline, Mineral Spirits			

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