

ISO-FLEX® 750U

Deck coating system

DESCRIPTION:

The ISO-FLEX® 750U deck coating system is a two-part polyurethane elastomeric traffic deck coating system with integral, skid resistant, traffic topping.

THREE 750U SYSTEMS:

Three standard ISO-FLEX 750U systems have been defined to provide effective, economical solutions for most usage conditions.

ISO-FLEX 750U LVT	pedestrian & light vehicular traffic (parking stalls)
ISO-FLEX 750U MVT	medium vehicular traffic (drive lanes less than 6% slope)
ISO-FLEX 750U HVT	heavy vehicular traffic (drive lanes greater than 6% slope)

ISO-FLEX 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 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 750U system consists of 1) a primer (as recommended by the manufacturer), 2) an elastomeric urethane membrane bonded continuously to the substrate for protection against water damage and 3) one or more urethane traffic topping coats with encapsulated aggregate for skid resistance. Recommended film mil thickness of the systems will vary depending upon intended service conditions.

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 750U systems, custom systems utilizing increased polymer mil thickness, aggregate variations or special colors to meet the specific requirements of any project, may be developed. Contact your local Master Builders representative for details.

PACKAGING:

ISO-FLEX 750U coating is available in 1.75 gallon (6.6 liter) and 5 gallon (18.9 liter) units.

STANDARD COLOR:

Base coat: Mortar Gray
Topcoat: Mortar Gray
(Special colors available upon request.)

BASIC USE:

Typical applications for ISO-FLEX 750U systems include parking structures, stadiums, mechanical room floors, plazas, roof decks, recreation decks and other concrete, masonry or wood structures where water protecting coated surfaces exposed to pedestrian or vehicular traffic is desirable.

TECHNICAL DATA:

Property & Test Method	Base Coat Results	Topcoat Results
Weight Per Gallon	9.5 lbs/gallon	8.6 lbs/gallon
Hardness (Shore A) <i>ASTM D2240</i>	70 to 80	80 to 90
Viscosity @ 75 degrees F (25 degrees C)		
Brookfield RVT No. 5 @ 20 RPM	4000 to 8000 cps	1000 to 3000 cps
Flash Point <i>ASTM D56</i>	110 degrees F (43.3 degrees C)	110 degrees F (43.3 degrees C)
Cure Time @ 75 degrees F (23.9 degrees C) <i>ASTM C920</i>		
	6 to 8 hours	24 hours
Abrasion Resistance <i>ASTM D4060</i> Tabor 1000 rev. CS 17 Wheel; 100 grams @1000 cycles		
	0.010 grams	0.010 grams
Weathering Resistance 2000 hours, Atlas Weather-O-Meter		
	Slight yellowing	No visual effect
Permeability <i>ASTM E398</i>	1.6 perms	1.6 perms
Peel Adhesion <i>ASTM C794</i>	50 pli	50 pli
Tensile Strength <i>ASTM D412</i>	1200 psi	2000 psi
Ultimate Elongation <i>ASTM D412</i>	350%	130%
Tear Resistance <i>ASTM D1004-66</i>	150 pli	270 pli
Weight Loss <i>ASTM D756</i>	4%	28%
Solids Content	96%	72%
Pot Life @ 77 degrees F (25 degrees C) <i>ASTM C603</i>	30 minutes	1 hour
Shelf Life @ 77 degrees F (25 degrees C) in sealed containers	6 months	1 year
Chemical Resistance No effect on System from Common Oils, Salts, Alkalies, Motor Oil, Anti-Freeze, Gasoline, Mineral Spirits.		

NOTE:

TECHNICAL DATA, shown above, is based on performance of new material only. Once applied, material properties are likely to be affected over time due to environmental factors such as aggressive UV exposure and/or extreme temperatures.

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 stated 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.

ISO-FLEX 750U SYSTEM

RECOMMENDED MILLAGES:

Recommended mil thickness of the 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 Mill Thickness*		Total
	Base Coat	Topcoat**	
Intermediate Deck			
Parking Stalls	25	15	40
Ramps/Drive Lanes	25	30	55
Top Decks			
Parking Stalls	30	30	60
Ramps/Drive Lanes	30	30	60

* System milage recommendations do not include primer.

** Topcoat must be applied in 15 mil increments. Multiple topcoat applications are required for additional thickness.

LIMITATIONS:

- Application must be to clean, sound, dry substrates at temperatures above 40 degrees F (5 degrees C).
- Adequate ventilation, as recommended by the manufacturer, must be provided in installation areas.

PRECAUTIONS:

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

INSTALLATION:

Preliminary:

Surfaces to receive ISO-FLEX 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 sealing, grinding out 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 750U system shall be applied in accordance with manufacturer's specific recommendations.

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