



Iso-Flex® 750EU Deck Coating System

SYSTEM DESCRIPTION

Iso-Flex 750EU deck coating systems are cold, liquid applied systems that withstand direct pedestrian and/or vehicular traffic abrasion. Each system consists of a primer (as recommended by the manufacturer), a two-part elastomeric urethane membrane bonded continuously to the substrate for water protection, and one or more epoxy traffic topcoats with encapsulated aggregate for skid resistance. They are durable, attractive traffic deck coating systems that are designed for water and chloride penetration protection.

Recommended mil thickness of the systems will vary depending upon intended service conditions.

Standard Iso-Flex 750EU systems provide effective, economical solutions for most typical conditions:

750EU MVT For pedestrian & light to medium vehicular traffic.

750EU HVT For heavy vehicular traffic exposure.

BASIC USES

Typical applications for Iso-Flex 750EU systems include parking structures, stadiums, and other structures, where durability and long term protection are required.

ADVANTAGES

- Develops a continuous bond to properly prepared substrates.
- Impervious to water and/or chloride penetration.
- Resistant to most common chemicals.
- Remains flexible over a wide temperature range.
- Requires no additional protection when left exposed to pedestrian and/or normal vehicular traffic.

TECHNICAL DATA FROM LABORATORY TESTS

(Field Properties may Vary)

Property	Test Method	750 BC	Epoxy 200*
Weight		9.5 lbs./gal.	8.8 lbs./gal.
Hardness (Shore A)	ASTM D2240	70-80	80-90
Viscosity @ 77°F(25°C)	ASTM D2196 #4 RVT @ 20 rpm	4000-8000 cps	1000-2500 cps
Flash Point	ASTM D93	110°F (43.3°C)	n/a
Cure Time @ 77°F(25°C)	ASTM C920	6-8 hours	12 hours
Abrasion Resistance	ASTM D4060 Tabor 1000 rev CS17 Wheel, 1000g	Loss 0.01 grams	Loss 0.06 grams
Weathering Resistance	ASTM G53-83	Yellowing, Chalking	Yellowing
Permeability	ASTM E398	1.6 perms	n/a
Peel Adhesion	ASTM C794	50 pli	n/a
Tensile Strength	ASTM D412	1200 psi	2800 psi
Ultimate Elongation	ASTM D412	350%	40%
Tear Resistance	ASTM D1004	100 pli	180 pli
% Yield (Wet→Dry)		96%	99%
Pot Life 77°F(25°C)	ASTM C603	30 mins	30 minutes
Shelf Life 77°F(25°C)	(in sealed containers)	6 months	2 years
Chemical Resistance	Unaffected by gasoline, oils and coolants		

*Physical properties are listed for the epoxy exclusive of sand aggregate matrix.

RECOMMENDED MILLAGES

Recommended mil thicknesses of Iso-Flex 750EU 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 Film Thickness*	
	<u>750EU (MVT)</u>	<u>750EU (HVT)</u>
Base Coat	25 mils	25 mils
Intermediate Coat	10 mils	20 mils
Sand (16/30 grit)	½ lb/ft ²	¾ lb/ft ²
Lock Coat	16 mils	16 mils
Total	51 mils	61 mils

* System millage requirements do not include primer.

LIMITATIONS

- Iso-Flex traffic coating should be applied to concrete surfaces having a moisture vapor transmission (MVT) rate of no more than 3 lbs/1000SqFt/24 Hours. For conditions in excess of this threshold please contact LymTal Technical Service Dept. for recommendations.
- Due to variation in substrate porosity, surface profile and aggregate used, achievable coverage rates can vary.
- Application must be to clean, sound, dry substrates at temperatures above 50°F (10°C).
- Curing compounds, form release agents, sealers, or other contaminants may interfere with adhesion.
- Adequate ventilation must be provided as recommended by the manufacturer. **Epoxy topcoats can and will discolor over time.**
- **For UV exposed applications, an aliphatic urethane topcoat MUST be used in place of, or in addition to, the epoxy lock coat.**

STANDARD COLORS

Base Coat - Concrete Gray.

Epoxy 200 - Concrete Gray.

(Special colors available on request.)

PACKAGING

Base Coat - Available in 5 gallon (18.9 liter) units.

Epoxy 200 - Available in 2 gallon (7.56 liter) or 10 gallon (37.8 liter) units.

INSTALLATION

Preliminary: Surfaces to receive Iso-Flex 750EU 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. Terminations and penetrations should also be sealed prior to general application.

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

PRECAUTIONS

To ensure safe installation of the Iso-Flex 750EU systems, please refer to the Material Safety Data Sheets that accompany each product shipment.

MAINTENANCE

Iso-Flex 750EU 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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LymTal International, Inc.

4150 South Lapeer Road • Lake Orion, MI 48359 • Tel (248) 373-8100 • Fax (248) 373-3480 • www.lymtal.com