

ISO-FLEX® 750EU

Deck coating system

DESCRIPTION:

An ISO-FLEX® 750EU system is a two-part polyurethane elastomeric traffic deck coating system with integral, skid resistant, epoxy, traffic topping. It is a durable, attractive traffic deck coating system that is designed for water and chloride penetration protection.

TWO 750EU SYSTEMS:

Two standard ISO-FLEX 750EU systems have been defined to provide effective, economical solutions for most typical conditions:

- 750EU LMD** For pedestrian & light to medium vehicular traffic.
750EU HD For heavy vehicular traffic exposure.

ISO-FLEX 750EU 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), an elastomeric urethane membrane bonded continuously to the substrate for water

protection, and one or more epoxy traffic topcoats with encapsulated aggregate for skid resistance. Recommended film mil thickness of the systems will vary depending upon intended service conditions.

BASIC USE:

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

SYSTEM 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:

(Field Properties May Vary)

Property	Test Method	Base Coat Urethane	Topcoat Epoxy*
Weight per gallon	—	9.5 pounds/gallon	9.0 pounds/gallon
Hardness	ASTM D2240	70 to 80 (Shore A)	70 to 80 (Shore D)
Viscosity	ASTM D2196 Brookfield RVT No. 5 @ 20 RPM	4000 to 8000 cps.	700 to 1000 cps.
Flash Point	ASTM D56	110 degrees F (43.3 degrees C)	> 230 degrees F (> 93 degrees C)
Cure Time @ 77 degrees F (25 degrees C)	ASTM C920	6 to 8 hours	24 hours
Abrasion Resistance	ASTM D4060 Tabor 1000 rev. CS 17 Wheel	Loss 0.01 g	Loss 0.06 g
Weathering Resistance	2000 hours, Atlas Weather-O-Meter	Slight yellowing	No visual effect
Permeability	ASTM E398	1.6 perms	0.08 perms
Peel Adhesion	ASTM C794	50 pli	—
Ultimate Elongation	ASTM D412	350 %	30%
Tensile Strength	ASTM D412	1200 psi	3500 psi
Tear Resistance	ASTM D1004-66	150 pli	—
Weight Loss	ASTM D756	4%	1%
Solids Content	—	96%	100%
Pot Life @ 77 degrees F (25 degrees C)	ASTM C603	30 minutes	30 minutes
Shelf Life (in sealed containers) @ 77 degrees F (25 degrees C)	—	6 months	1 year
Chemical Resistance (based on total system)	No effect on System from Concentrated Alkalis, 15% NaCl, Motor Oil, Brake Fluid, Anti-Freeze, Gasoline, Alcohol, Mineral Spirits.		

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

NOTE:

TECHNICAL DATA, shown above, is based on 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.

STANDARD COLORS:

Base Coat: Mortar Gray.
 Topcoat: Mortar Gray.
 (Special colors available on a request basis.)

PACKAGING:

Base Coat: Available in 1.75 gallon (6.6 liter) and 5 gallon (18.9 liter) units.
 Topcoat: Available in 1 gallon (3.79 liter) and 5 gallon (18.9 liter) units.

ISO-FLEX 750EU RECOMMENDED SYSTEMS:

<u>EXPOSURE</u>	<u>SYSTEM</u>	<u>APPROXIMATED MILS</u>
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Exposed Interior Decks:

Light Traffic

Drive Lanes	750EU LMD	43
Stalls	750EU LMD	43

Medium/Heavy Traffic

Drive Lanes	750EU HD	65
Stalls	750EU LMD	43
Ramps	750EU HD	65
Helix	750EU HD	65

LIMITATIONS:

- ISO-FLEX 750EU systems are designed for application in relatively thin mil film thicknesses. Variations in mil thickness of the cured membrane are to be expected due to small differences in the porosity and profile of the substrate, as well as the practical tolerance limitations of the application procedures.
- Application must be to clean, sound, dry substrates at temperatures above 50 degrees F (10 degrees C).
- Adequate ventilation, as recommended by the manufacturer, must be provided in application areas.

PRECAUTIONS:

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

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.

MAINTENANCE:

ISO-FLEX 750EU systems may be easily repaired while in service using methods recommended by the manufacturer.

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