



## Iso-Flex® 780/750U-HL High-load Deck Coating System

### SYSTEM DESCRIPTION

Iso-Flex 780/750U-HL deck coating systems are cold, liquid-applied, polyurethane elastomeric deck coatings. The high-load systems consist of a primer, a one-part urethane membrane, an aggregate-loaded one-part urethane intermediate coat and a one-part lockcoat.

Standard Iso-Flex 780/750U-HL systems provide effective, economical solutions for most typical conditions:

780/750U-HL MVT For light to medium vehicular traffic.

780/750U-HL HVT For heavy vehicular traffic exposure.

When the coating system is directly exposed to sunlight use Iso-Flex 750 Top Coat Aliphatic (AL). For all other areas use Iso-Flex 750 Top Coat Aromatic (AR).

### BASIC USES

Typical applications for Iso-Flex 780/750U-HL traffic deck coating systems include ramps, parking stalls, entrances and exits. These systems will provide a high traction surface under both pedestrian and vehicular traffic.

### ADVANTAGES

- The system develops a continuous bond to properly prepared substrates and protects from water and/or chloride penetration. The system is also resistant to most common chemicals.
- The high-load systems have excellent physical properties, including weather and abrasion resistance.
- Single component base, intermediate and top coats.

### RECOMMENDED MILLAGES

Recommended mil thickness of Iso-Flex 780/750U-HL 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*	
	MVT	HVT
780 Base Coat	20 mils	20 mils
780 IC	10 mils	15 mils
Sand (16/30 grit)	½ lb/ft <sup>2</sup>	¾ lb/ft <sup>2</sup>
750 TC AL/AR	12 mils	12 mils
Total	42 mils	47 mils

\* System millage requirements do not include primer.

### LIMITATIONS

- Iso-Flex 780/750U-HL 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.



**SEALANT · WATERPROOFING & RESTORATION INSTITUTE**

**ISSUED to: LymTal International, Inc.**  
**Product:** ISO-Flex 780/750U-HL High Load Deck Coating System (MVT-HVT)

**ASTM D 412:** Tensile Strength of Top Coat  
 750TC Topcoat  
 Tensile Strength: 2,500 psi;  
 Elongation: 100% Pass ✓

**ASTM D 4541:** Adhesion of Base Coat  
 780BC with Primer 750  
 Pull-off Adhesion: 516 psi Pass ✓

**ASTM D 4060:** Abrasion Resistance of Top Coat  
 750TC Topcoat  
 Abrasion Resistance: 0.03 mgms loss  
 – mgms loss/1,000 cycles Pass ✓

**Validation Date:** 03/06/17 – 3/05/22

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**DECK COATING VALIDATION**  
[www.swrionline.org](http://www.swrionline.org)

## INSTALLATION

**Preliminary:** Surfaces to receive Iso-Flex 780/750U-HL 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-HL system shall be applied in

accordance with manufacturer's specific recommendations.

## PRECAUTIONS

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

## MAINTENANCE

Iso-Flex 750U-HL 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.

*Revised 01/22*

TECHNICAL DATA FROM LABORATORY TESTS (Field Properties May Vary)					
Property	Test Method	780 BC	780 IC	750 TC AL	750 TC AR
Weight Per Gallon		9.3 lbs/gallon	9.25 lbs/gallon	9.0 lbs/gallon	9.3 lbs/gallon
Hardness (Shore A)	ASTM D2240	60-70	80-90	80-90	80-90
Viscosity @ 77°F (25°C)	ASTM D2196 #4 RVT @ 20 rpm	3000-6000 cps	1500-3000 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)	110°F (43.3°C)
Cure Time @ 77°F (25°C)	ASTM C920	24 hours	16-24 hours	24 hours	24 hours
Abrasion Resistance	ASTM D4060 Tabor 1000 rev. CS 17 Wheel, 1000g	Loss 0.01 grams	Loss 0.01 grams	Loss 0.03 grams	Loss 0.03 grams
Weathering Resistance	ASTM G53-83	Yellowing	Yellowing, Chalking	No Visual Effect	Yellowing
Permeability	ASTM E398	1.6 perms	1.6 perms	1.6 perms	1.6 perms
Peel Adhesion	ASTM C794	30 pli	n/a	n/a	n/a
Tensile Strength	ASTM D412	1200 psi	2800 psi	2500 psi	2500 psi
Ultimate Elongation	ASTM D412	600%	100%	100%	100%
Tear Resistance	ASTM D1004	80 pli	180 pli	200 pli	200 pli
% Yield (Wet→Dry)		86%	78%	80%	78%
Pot Life @ 77°F (25°C)	ASTM C603	1 hour	1-2 hours	1-2 hours	1-2 hours
Shelf Life @ 77°F (25°C)		6 months	6 months	6 months	6 months
Chemical Resistance	No effect on System from Common Oils, Salts, Alkalies, Motor Oil, Anti-Freeze, Gasoline, Mineral Spirits				

### LymTal International, Inc.

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