



Iso-Flex® 780/750U Textured Coating System

SYSTEM DESCRIPTION

Iso-Flex 780/750U Textured Coating Systems are polyurethane traffic coating membranes with an integral synthetic aggregate for use as a wear course or top coat. Iso-Flex 780/750 Textured Top Coats are available as either an aromatic or aliphatic chemistry. These systems have excellent abrasion resistance to wheel and pedestrian traffic. All Iso-Flex 780/750U Textured 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 Textured Coating System consists of a primer (as recommended), a one-part elastomeric urethane membrane bonded continuously to the substrate for protection against water damage and one or more textured urethane traffic topping coats with encapsulated synthetic 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)

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

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, Mortar Gray, Dark Gray

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 synthetic aggregate is silica free and reduces overall system weight.
- The synthetic aggregate chemically reacts with the polymer to form a tougher surface.
- The synthetic aggregate is 100% post-industrial recycled material.

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				
	<u>Base</u>	<u>Int.</u>	<u>Top</u>	<u>Total</u>
MVT	20 mils		15 mils	35 mils
HVT	20 mils	15 mils	15 mils	50 mils

SEALANT • WATERPROOFING & RESTORATION INSTITUTE	
Issued to: LymTal International	
Product: 780/750U Textured Coating System (MVT & HVT)	
ASTM D 412: Tensile Strength or Top Coat -750TCAL Aliphatic Topcoat Tensile Strength: 2,537 psi / Elongation: 166% -750TCAR Aromatic Topcoat Tensile Strength: 1,228 psi / Elongation: 69%	Pass ✓
ASTM D 4541: Adhesion of Basecoat 780BC with Primer 750 / Pull-off Adhesion: 289 psi 780BC with Primer 757 / Pull-off Adhesion: 313 psi	Pass ✓
ASTM D 4060: Abrasion Resistance of Topcoat 750TCAL Aliphatic Topcoat Abrasion Resistance: 10 mgms loss per 1,000 cycles 750TCAR Aromatic Topcoat Abrasion Resistance: 4 mgms loss per 1,000 cycles	Pass ✓
Validation Date: 4/22/25 – 4/21/30	
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DECK COATING VALIDATION	
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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 for recommendations.
- Due to variation in substrate porosity, surface profile and achievable coverage rates can vary.
- 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 Textured Coating 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 Textured Coating System shall be applied in accordance with manufacturer's specific recommendations.

PRECAUTIONS

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

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.

05/2025

TECHNICAL DATA FROM LABORATORY TESTS				
(Field Properties May Vary)				
Property	Test Method	780 BC	750 TCAL TX	750 TCAR TX
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			

LymTal International, Inc.

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