

## Iso-Flex® Barrier Coat 650

### PRODUCT DESCRIPTION

Iso-Flex Barrier Coat 650 is a two-component, water based epoxy coating. It is a low odor, nonflammable low VOC vapor retarding coating.

### BASIC USES

Iso-Flex Barrier Coat 650 is used on concrete as a vapor retarder when excessive moisture vapor drive prohibits the application of surface coatings. Iso-Flex Barrier Coat 650 can be applied to on grade or below grade concrete slabs, split slabs containing buried insulation or waterproofing membranes and concrete slabs over unvented metal pans. The Iso-Flex Barrier Coat 650 is applied to concrete slabs that exhibit a moisture content of the surface greater than 3 percent and/or exceeds a moisture vapor drive test of 3 lbs/1000ft<sup>2</sup> (but no more than 7 lbs/1000ft<sup>2</sup>) over a 24hr period.(ASTM F1869)

### ADVANTAGES

- Low odor and low VOC.
- Nonflammable.
- Permits the coating of high moisture content concrete slabs.
- Relatively fast dry times for quicker turnovers.

### LIMITATIONS

- Application must be to a clean, surface dry, sound substrate.
- Retarding vapor release from a concrete slab that is subjected to freezing temperatures can lead to freeze/thaw deterioration of the slab
- Install between 50°F and 95°F.
- Does not seal cracks and joints.
- Do not allow to puddle in bug holes.
- Keep from freezing

### PACKAGING

Available in 1¼ and 5 gallon units.

### STANDARD COLORS

Clear

### INSTALLATION

Iso-Flex Barrier Coat 650 should be applied to a clean, dry or surface dry, sound substrate. Prepare surface by shot blasting or other mechanically abrading method. Mix and apply the Iso-Flex Barrier Coat 650, base resin and cure. Mix only full units and apply immediately.

### TECHNICAL DATA FROM LABORATORY TESTS

(Field Properties May Vary)

Property	Test Method	Test Results
VOC	—	30 g/l
Weight per Gallon	ASTM D1475	8.65 lbs/gal (color-dependent)
Solids	—	35% ± 2 (weight)
Hardness (Shore D)	ASTM D2240	45
Mixed viscosity	ASTM D2196 Brookfield RVT No.5 @ 20 RPM @ 75°F	200 cps
Flash Point	ASTM D56	>200°F
Cure Time	ASTM C920	16-24 hours
Recoat Time		2-5 hours
Abrasion Resistance @ 75°F	ASTM D4060 Tabor 1000 rev., CS17 Wheel, 1000 gr.	0.044 grams
Weathering Resistance	2000 hours Atlas	Yellows
Pot Life @ 77°F	—	40 minutes
Shelf Life @ 75°F	—	1 year in sealed containers
Coverage 1 <sup>st</sup> Coat 2 <sup>nd</sup> Coat		100 - 125 ft. <sup>2</sup> /gal. 150 - 200 ft. <sup>2</sup> /gal
Water Absorption	ASTM C413	<0.2%
Water Vapor Transmission	ASTM E-96 Procedure D	0.98g / 24hr segment
Bond Strength	ASTM D4060	500 psi

Iso-Flex Barrier Coat 650 may be applied by brushing, or rolling. Tools may be cleaned with water.

Iso-Flex Barrier Coat 650 is applied in two coats. The first coat is applied at 100 to 125 square feet/gal and allowed to cure for 2-4 hours. A second coat of 150 to 200 square feet /gal is applied and while the epoxy is still wet, saturate the surface with 30 mesh silica sand (approx. 20 lbs/100 sq ft). After 24 hours remove the excess sand and continue with the specified coating system.

### **PRECAUTION**

Iso-Flex Barrier Coat 650 is an epoxy/amine based product and must be used with adequate ventilation and personal protection. Refer to the Material Safety Data Sheet for detailed health and safety information prior to use.

### **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.

04/11

**LymTal International, Inc.**

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