



Item# F50 Revised: 11/3/2010

## Self-Leveling, Urethane-Modified-Epoxy (UME) Flooring System

### Description

Epoxytec SLF™ coating system is a high performance cycloaliphatic amine cured urethane-modified-epoxy (UME) flooring system. It is 100% solids. SLF™ is a self-leveling polymer containing once cured, provides an ultra-high gloss finish with good flexibility.

### Typical Uses

SLF™ is ideally suited for coating:

- Commercial flooring systems, service areas, warehousing, etc.
- Facility traffic areas
- Chemical process areas, secondary containment
- Aircraft hangers

### Features

- 100% solids
- Convenient 1-to-1 ratio
- USDA conformance
- Excellent chemical resistance
- High impact strength
- Low viscosity
- Cold temperature performance
- Easy to apply by roller, brush, squeegee or spray
- Self-leveling
- Ultra-high gloss finish
- Good flexibility

### Film Thickness

SLF™ can be a single coat or multiple coat system.

SLF™ can be applied onto a cementitious surface at 8 mils (minimum) to 12 mils (maximum by roller/brush). For a total coating thickness exceeding 12 mils (by roller/brush), multiple coats are necessary.

### Theoretical Coverage

SLF™ is a 100% solid coating.

Therefore, the theoretical coverage properties between wet film thickness (WFT) and dry film thickness (DFT) change are the same. Ninety-six (160) square feet (sq.ft.) per gallon (gal.) at 10 mils DFT. Actual coverage will depend on surface conditions, irregularities, and surface profile.

### Surface Preparation

The success of any coating application is directly proportional to the completeness of the substrate preparation and the care the application crew puts into the application. Surface must be clean and sound. Remove all dust, contaminants, grease, curing compounds, rust, impregnation, waxes, foreign particles, and disintegrated materials from the surface, in order to achieve a clean and profiled surface.

*Concrete:* Prepare the concrete by abrasive blasting, high pressure water cleaning, and/or approved mechanical method to achieve clean, sound, and profiled concrete. Prepare concrete in accordance with SSPC-SP 13/NACE No. 6. "Surface Preparation of Concrete."

*Steel:* Before preparing steel, please inspect and remove oil, grease, or other contaminants - "Solvent Cleaning" (SSPC-SP1) may be required. Remove all sharp peaks, including weld spatter. Abrasive blasting (or other approved mechanical methods) must be used in order to achieve a clean surface with a minimum profile of 3 mils. To prevent flash rusting, consider the use of an Epoxytec recommended primer.

*Wood:* Remove all grease, oil, dirt or other foreign matter by solvent or detergent washing. Prepare wood surface by abrasive sanding and washing (allow to dry and prime using an Epoxytec recommended primer).



## Application Method

1. Add component B and component A, mix thoroughly for at least 5 minutes. For best results, use a drill motor/mechanical mixing paddle operated at low speed.
2. Allow 5 minute induction time after mixing.
3. If using a squeegee or roller, spread a full even coat SLF™ coating onto the surface. Consult with spray equipment manufacturers for proper specs on spray setup.
4. Use solvents for cleaning tools and equipment soon after use.

## Thinning

Epoxytec does not advise thinning SLF™; pinholing due to solvent addition could be a result.

## Storage & Handling

- Shelf life: 12 months, sealed.
- Storage: Store in a dry area away from direct sunlight. The material should be conditioned to between 75° F and 95° F before use.

## Limitations

Not recommended for non-skid granular embedment.

Do not apply in temperatures below 45 F.

Cracks and holes in concrete should be repaired prior to application. Floor surface must be structurally sound, free from hydrostatic pressure, contaminants, curing compounds, or other materials which may prevent proper adhesion.

## Safety

Consult Material Safety Data Sheet (MSDS) for all material safety information.

## Packaging & Color

- 4 Gallon Kit (pails)

Item# FSO-G4-C (clear)

Item# FSO-G4-SL (slate, light grey)

## Technical Properties

Finish		High Gloss
Mix Ratio		1-to-1
Type		cycloaliphatic amine urethane-modified-epoxy (UME)
Solids by Volume	ASTM D2697	100%
Solvent (VOC)	ASTM D3960	0%
Pot Life		40 min. (25 C / 200 g mass)
Viscosity (A & B Mixed)	ASTM D2196	600 cps @ 25 C (motor oil consistency)
Adhesion Strength	ASTM D4541	600 psi
Tensile Strength	ASTM D638	9,900 psi
Flexural Strength	ASTM D790	14,900 psi
Compressive Strength	ASTM D695	12,200 psi
Elongation	ASTM D2370	12%
Complete Cure		18 hours (25 C)
Temperature Exposure (dry)		0F - 147F
Temperature Exposure (wet)		0F - 180F
Recoat Time		4 hr. – 48 hr. (25 C)



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