



# Floor Coating System

## HIGHLY DURABLE & LOW MAINTENANCE

Lotus Floor Coating is a 2 part Epoxy, self-priming and self-leveling floor coating system. The coating is designed to be very flexible, allowing for the normal expansion and contraction of various recommended floors and floor coverings. Lotus Floor Coating may be used in both interior and exterior applications. It offers extreme wear and stain resistance. High traffic areas have been documented to last for numerous years with minimal maintenance and no buffing and stripping. Stains such as ketchup, mustard and Betadine™ may simply be wiped off with a damp mop or towel. Lotus Floor Coating is ideal for commercial rest-room floors, as it will totally encapsulate odor causing uric acid. The only maintenance required to retain the lustrous Lotus Floor Coating finish is periodic damp mopping. Usage of Lotus Floor Coating totally eliminates the need for periodic stripping and waxing of resilient flooring. Rejuvenation of coating may be attained by buffing the floor with a black pad and recoating at a 1 mil. thickness.

### USE OVER

Lotus Floor Coating may be applied to any hard surface on either interior or exterior applications. These floors include, but are not limited to hardwood; vinyl composition tile; vinyl asbestos tile; solid and pure vinyl tile; felt and vinyl backed sheet goods; glazed ceramic tiles and pavers; radial rubber tile and other rubberized flooring products.

### SURFACE PREPARATION

Floor must be clean and completely dry. Remove all foreign substances such as wax, grease, oil, dirt and any substance or chemical that would interfere with a good bond. Surfaces to be covered should be between 60° F. to 80° F. and relative humidity should be between 25% and 70% at the time of application.

### INSTALLATION

It is recommended that gloves and safety glasses be used when applying the Lotus Floor Coating. Completely empty the epoxy "Cure" container into the epoxy "Base" container. Completely and thoroughly mix the two components using paint stir stick or a mechanical mixer with a jiffy attachment. (NOTE: If mechanical mixing is utilized, care should be maintained not to mix too quickly as this can entrain air into the Lotus Floor Coating). After mixing, Lotus Floor Coating may be applied with a high-density foam roller or an air-atomized sprayer set at no more than 40 psig. and at a spread rate of approx. 600 ft.<sup>2</sup>/gallon. Approx. 600 ft.<sup>2</sup>/gallon spread rate equates to approx. 3 mil. thickness on the floor. When utilizing an air-atomized sprayer to apply the Lotus Floor Coating. (NOTE: Approx. 20% loss when using a sprayer). It is imperative that proper personal protection (face mask, gloves, long sleeves, long pants and a breathing apparatus) be utilized prior to the application with the airless sprayer. Thinning of the Lotus Floor Coating is not normally necessary for spray applications; however, if thinning is required for proper atomization; thin with Lotus 46 Thinner, at a rate of no more than 5% by volume. Protect floor for 8 hours prior to opening to foot traffic; 24 hours prior to opening to heavy rolling traffic.

### PHYSICAL PROPERTIES

- BASE :** Highly Cross-Linked, High Molecular Weight Epoxy Resin
- COLORS :** Clear, White, Beige. Custom colors available upon request
- FINISH :** High Gloss, Satin and Flat
- COVERAGE :** Approx. 600 sq.ft./gallon (158 sq.ft./liter) at approx. 3 mil. recommended thickness
- SOLIDS CONTENT :** 80% by weight - Smooth Finish  
100% by weight - Orange Peel Finish

- POT LIFE :** 1 hour @ 77° F.
- INITIAL CURE TIME :** 4 Hours Catalyzed  
8 Hours Un-Catalyzed
- PACKAGING :** 50, 150, & 600 sq.ft. kits
- VOC :** 230 grams / liter - Smooth Finish  
0 grams / liter - Orange Peel Finish
- CHEMICAL CURE :** 3 - 5 days post application

**CAUTION :** DO NOT take internally. If swallowed, DO NOT induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN. This material may cause skin and/or eye irritation. Avoid prolonged contact with the skin or breathing of vapors or mist. If the material is spray applied, use proper face and breathing apparatus protection. Keep material away from heat and open flame. This material is designed for application by professionally trained personnel, using proper equipment. This product is not intended for sale or use by the general public.

**WARRANTY INFORMATION :** This material is manufactured according to exacting quality control standards and is warranted to be free from manufacturing defects. Defective material called to our attention within one year of manufacture will be replaced. No guarantee, expressed or implied, is made regarding the performance of this product since the manner and conditions of application are beyond our control.

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PRODUCT BROCHURE





CHEMICAL RESISTANCE PROPERTIES	
Acids, Inorganic	10% Hydrochloric Acid 30% Hydrochloric Acid (Muriatic) 10% Nitric Acid 50% Phosphoric Acid 37% Sulfuric Acid (Battery Acid)
Acids, Organic	10% Acetic Acid 10% Citric Acid Oleic Acid
Alkalies	10% Ammonium Hydroxide 50% Sodium Hydroxide
Solvents (Alcohols)	Ethylene Glycol (Antifreeze) Isopropyl Alcohol Methanol
Solvents (Aliphatic)	d-Limonene Jet Fuel (JP-4) Gasoline Mineral Spirits
Solvents (Aromatic)	Xylene
Solvents (Chlorinated)	Methylene Chloride
Solvents (Ketones and Esters)	Methyl Ethyl Ketone (MEK) Propylene Glycol Methyl Ether Acetate (PMA)
Miscellaneous	20% Ammonium Nitrate
Chemicals	Brake Fluid Bleach Motor Oil (SAE 30) 20% Sodium Chloride 1% Tide® Laundry Soap 10% Trisodium Phosphate

PHYSICAL/PERFORMANCE PROPERTIES		
MATERIAL PROPERTIES (LIQUID)	TEST METHOD	RESULTS
Volatile Organic Compound (VOC) lb/gal (g/L)		
Density, Lb/gal (kg/L)	ASTM D 1475 - 85	Smooth Finish Base 9.1 (1.091) Smooth Finish Cure 8.40 (1.007) Smooth Finish (Base + Cure) 9.1 (1.09)
Shelf Life	ASTM D2196	One Year from the date of Manuf.
Viscosity, cps	ASTM D2196	Smooth Finish "Base" 283 @ 56.0% Torque Smooth Finish "Cure" 51.5 @ 10.3% Torque
Brookfield		
Coverage Rate, ft <sup>2</sup> /gal (m <sup>2</sup> /L)		600 (14.76)
Application Thickness, wet mils (mm)		2-3
Flash Point, °F (°C)	ASTM D3278	Smooth Finish, "Base" 152(66.67)
Seta Closed Cup	ASTM D3278	Smooth Finish, "Cure" 105(40.56)
Percent Solids, By Weight	ASTM A 2540 B-97	Smooth Finish Base 81% Smooth Finish Cure 65% Smooth Finish (Base + Cure) 80%
(a) Standard Formulation, White Matte,	ASTM 2369TES-05	0.19 (22.92)
Standard Formulation, Clear Gloss	ASTM 2369-07	0.175(20.96)
(b) Epoxy Base	ASTM D 5403-93	1.73 (207.4)
Epoxy Cure	ASTM D 5403-93	2.94(352.6)
Combined (Base + Cure)	ASTM D 5403-93	1.82(218.30)
Tensile Strength, psi (MPa)	ASTM D2370	1078 (7.43)
Percent Elongation (resin only)	ASTM D2370	104.1%
Adhesion, Psi (MPa)	ASTM D 4541	355.6 (2.45)
Flame Spread Index (FSI)	ASTM E84-08a	5 (Class A)
Smoke Developed Index (SDI)	ASTM E84-08a	0 (Class A)
CURED COATING PROPERTIES (DRY FILM)	TEST METHOD	RESULTS
Abrasion Resistance, mg loss Taber Abraser Avg. 0.002, St. Dev. 0.0008		
Coefficient of Friction (COF)		
Dry Film Thickness, mils (microns)		
APPLICATION CHARACTERISTICS		
Coverage Rate, ft <sup>2</sup> /gal (m <sup>2</sup> /L)		600 (14.76)
Application Thickness, wet mils (mm)		2-3
Tensile Strength, psi (MPa)	ASTM D2370 1/2" wide, 4 mil DFT pulled at 0.25"/minute	1078 (7.43)
Percent Elongation (resin only)	ASTM D2370	104.1%
Adhesion, Psi (MPa)	ASTM D 4541	355.6 (2.45)
Flame Spread Index (FSI)	ASTM E84-08a	5 (Class A)
Smoke Developed Index(SDI)	ASTM E84-08a	0 (Class A)

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