



Marine Coating System

HIGHLY DURABLE & LOW MAINTENANCE

Lotus Marine Coating is a 2 Part Epoxy, **self-priming, flexible** surface coating system designed for marine applications. The coating maintains a "Teflon"-like non-stick surface. It incorporates **anti-microbial additives** making the Marine Coating System **completely algae, fungus and mold proof**. Lotus Marine Coating exhibits excellent scratch, scuff and UV resistance, while maintaining a scorch resistance up to 1,000° F. Lotus Marine Coating significantly outperforms the most popular marine coatings currently available. The coating will not inhibit barnacle growth in salt water applications; however, it does allow for ease of removal with little or no effort.

USE OVER

Lotus Marine Coating may be applied to any hard surface including, but not limited to fiberglass, wood, plywood, composite materials and metal.

SURFACE PREPARATION

All surfaces must be thoroughly 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. Repair any cracks larger than 'hairline' prior to the application of Lotus Marine Coating. 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 Marine 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 Lotus Marine Coating)*. After mixing, Lotus Marine Coating may be applied with a high-density foam roller, brush or airless sprayer at an approximate spread rate of 600 sq.ft./gallon. A 600 sq.ft./gallon spread rate when applied using an air-atomized sprayer should be set at no more than 40-psi air pressure. *(NOTE: Application utilizing an air-atomized sprayer will incur an approximate 20% loss of material)* It is imperative that proper personal protection (*face mask, gloves, long sleeves, long pants and a breathing apparatus*) be utilized prior to the application utilizing an air-atomized sprayer. Thinning of Lotus Marine Coating is normally not 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.

PHYSICAL PROPERTIES

BASE : Highly Cross-Linked, High Molecular Weight Epoxy Resin

COLORS : Clear, White, Marine Blue & Red

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 coating 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



lotus coating system



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)	T METHOD	RESULTS
Volatile Organic Compound (VOC) lb/gal (g/L)		
(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)
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%
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		One Year from the date of Manuf.
Viscosity, cps	ASTM D2196	Smooth Finish "Base" 283 @ 56.0% Torque
Brookfield	ASTM D2196	Smooth Finish "Cure" 51.5 @ 10.3% Torque
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)
Coverage Rate, ft ² /gal (m ² /L)		600 (14.76)
Application Thickness, wet mils (mm)		2-3
CURED COATING PROPERTIES (DRY FILM)		RESULTS
Abrasion Resistance, mg loss	TEST METHOD	
Taber Abraser Avg. 0.002, St. Dev. 0.0008		
Coefficient of Friction (COF)		
Dry Film Thickness, mils (microns)		
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)
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