



SURFACE TOLERANT EPOXY-MASTIC COATING

Features

- High Solids (80%) and High Build Epoxy Coating
- High chemical and abrasion resistance
- High adhesion properties when applied on properly primed surfaces
- Scratch and hard-impact resistant coating
- Suitable for surfaces that require immersion

Recommended for

Ferrous Metal, Galvanized, Aluminum, concrete, Aged Coatings. Intended for use on hand prepared rusty ferrous metal, abrasive blast cleaned and hydro-blasted ferrous metal, blasted concrete, and over a wide range of intact aged coatings. Use in industrial maintenance, coastal structures, pulp and paper plants, food and beverage plants, structural steel, tank exteriors, bridges, offshore, marine and immersion in fresh or salt water

General Description

Al Khaleej Guardian Surface Tolerant Epoxy-Mastic Coating is a high-solids, rust-inhibitive, surface-tolerant epoxy mastic for professional use in industrial and commercial applications. Ideal for protection of steel and concrete surfaces. Excellent for use on ferrous and non-ferrous metals, and when properly top-coated, exhibits excellent chemical and moisture resistance. Resists solvents, dilute acids and alkali attack.

This is a two-component product that requires 1 part of the proper "A" component mixed with 1 part of part "B" catalyst. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.

Limitations

- This product will not cure if applied on surface temperature below 7.2°C
- Do not paint if temperature is within 5°C of dew point or rain is expected within 12 hours of application

TECHNICAL DATA

Generic Type	Polyamide Cured Epoxy Finish	Dries by	Chemical Cure
Pigment Type	Titanium Dioxide	Dry Heat Resistance	230 °F (110°C)
Volume Solids	80% ± 2.0% (when mixed as recommended)	Finish	Available in Gloss and Semi Gloss
Coverage per ltr	90 – 100 Sq. Ft.at Recommended DFT	Surface Temperature at Application	Min. 15°C
Recommended Film Thickness	Wet: 200 ± 5 microns		Max. 35°C
	Dry: 120 ± 5 microns	Thinner	Surface must be dry and at least 5°C above the dew point Guardian Thinner for Epoxy Finish
Induction time @ 30 °C	20 Minutes	Pot Life	6 Hours @ 30 °C
Drying Time @ 30°C	To Touch: 2 to 3 Hours	Storage Temperature	Min. 15°C
	To Recoat: 16 to 24 Hours		Max. 32°C
	Full Cure: 72 Hours	Recommended Primers	Guardian Epoxy Zinc Phosphate Primer Guardian Epoxy Zinc Rich Primer

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Surface Preparation

All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew and other contaminants that may adversely affect the application process.

NEW SURFACES

Steel: Sand blasting is recommended. Surfaces must be free of grit dust. The coating should be applied as soon as possible after the sand-blast in order to prevent flash rusting or surface contamination. Hand tool cleaning or power tool cleaning can be used if blasting is not possible. In areas where adequate surface preparation is not possible the use of Guardian Clear Epoxy Pre-Primer is recommended.

Concrete: All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Prime concrete with 1 coat Guardian Clear Epoxy Pre-Primer for improved adhesion qualities.

Galvanized and Non-Ferrous Metals: Solvent clean all surfaces. Apply 1 coat of Guardian Etch Primer to improve adhesion.

Fiberglass: Can be applied directly to clean, previously unpainted fiberglass. Scuff sand fiberglass to promote better adhesion.

Previously Painted Surface: Can be applied over old thermoset finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. If lifting occurs, Guardian Clear Epoxy Pre-Primer may be used over all existing coatings as a barrier coat.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.

Application

Mix the "A" and "B" components thoroughly before mixing together. The use of a drill mixer at low speed will best accomplish this task. Add the full contents of the quart size "B" component to the "A" and thoroughly mix the two together. Allow 20 minutes induction time (at 30°C) prior to applying the mixed product to the surface. Once mixed, the paint must be consumed within 3 to 4 hours to avoid gelling. Do not apply if air or surface temperatures are below 7°C or relative humidity levels are greater than 85%, or if surface or air temperatures are within 3 degrees of the dew point. Product should be allowed to dry tack free prior to air or surface temperatures being within 3 degrees of the dew point.

Airless Spray: Tip range between .015 and .019. Total fluid output pressure at tip should not be less than 2100 psi.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. If material begins gelling, immediately flush equipment as product has reached pot life.

IMPORTANT TO NOTE

All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. All epoxies tend to yellow. Where color and gloss retention are important, top-coating will be necessary. Will stain with prolonged exposure to some solvents and chemicals. This staining will not affect the durability or protective qualities of the coating. Do not apply if material, substrate or ambient temperature is below 45°F (7.2°C). Relative humidity should be below 85%. Do not apply if rain is expected within 12 hours of application.

CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Acids	Good
Alkalis	Excellent
Solvents	Excellent
Fuel	Excellent
Acidic Salt Solutions	Excellent
Alkaline Salt Solutions	Excellent
Neutral Salt Solutions	Excellent

Recommended Systems	
For Blasted Metals	1st Coat: Guardian Epoxy Zinc Phosphate Primer
	2nd Coat: Guardian Epoxy Intermediate
	3rd Coat: Guardian Epoxy Mastic Coating
For Galvanized Metals	1st Coat: Guardian Etch Primer
	2nd Coat: Guardian Epoxy Zinc Phosphate Primer
	3rd Coat: Guardian Epoxy Mastic Coating
For Aged Coatings	Use Direct or use Guardian Clear Epoxy Pre-Primer as a barrier coat

**KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL USE ONLY**