Al Khaleej Paints

GUARDIAN PROTECTIVE COATINGS

TWO COMPONENT HI-BUILD EPOXY INTERMEDIATE

Features

- Highly resistant to abrasion
- High adhesion properties when applied on properly primed surfaces
- High resistance to moisture, salt spray and mineral oil
- Acts as a suitable barrier coating on exposed steelwork
- Excellent anti-corrosion coating

General Description

Hi Build Epoxy Intermediate is a two-component barrier coat pigmented with micaceous iron oxide designed to act as a midcoat between primers and topcoats on steel structures, tanks, walls, boats, and other industrial and commercial surfaces requiring a durable coating in severe environments. Moderate to heavy-duty performance in commercial/industrial environments exposed to intermittent spillage of mild to heavier chemicals, occasional steam and chemical cleaning. Excellent for use on ferrous metals, non-ferrous metals and galvanized metal. **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.**

Recommended for

Properly Prepared and Primed Steel, Iron, Non-Ferrous, Concrete, and Fiberglass. Ideal for Food and Beverage Processing, Industrial Maintenance, Paper and Pulp Processing, Transportation, Industrial Flooring, General Metal Finishing / Fabrication, Chemical Processing, Commercial Structures, Tank Interiors and other areas requiring a long-life protective coating.

Limitations

- Do not paint if temperature is within 3°C of dew point, or if rain is expected within 5 hours of application.
- Available in Dark Brown or Grey Colors only.

TECHNICAL DATA

Generic Type	Hi-Build Epoxy Intermediate	**Dries by**	Chemical Cure
Pigment Type	Titanium Dioxide	**Dry Heat Resistance**	230 °F (110°C)
Volume Solids	65% ± 5.0% (when mixed as recommended)	**Finish**	Flat Finish
Coverage per ltr	80 – 90 Sq. Ft.at Recommended DFT	**Surface Temperature at Application**	Min. 15°C
Recommended Film Thickness	Wet: 190 ± 10 microns		Max. 35°C
	Dry: 115 ± 5 microns		Surface must be dry and at least 3°C above the dew point
		Thinner	Guardian Thinner for Epoxy Finish
Induction time @ 30 °C	20 Minutes	**Pot Life**	6 to 8 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: 5 to 6 Days	**Recommended Primers**	Guardian Epoxy Zinc Phoshpate Primer
			Guardian Epoxy Zinc Rich Primer

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 2000 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	View Finish Coat Data Sheets for Resistance Information
Salt Water	
Acids	
Alkalis	
Solvents	
Fuel	
Acidic Salt Solutions	
Alkaline Salt Solutions	
Neutral Salt Solutions	

Recommended Systems	
For Blasted Metals	1st Coat: Guardian Epoxy Zinc Phosphate Primer
	2nd Coat: Guardian Epoxy Intermediate
	3rd Coat: Guardian Polyamide Epoxy Finish
For Galvanized Metals	1st Coat: Guardian Etch Primer
	2nd Coat: Guardian Epoxy Zinc Phosphate Primer
	3rd Coat: Guardian Intermediate coat or Polyamide Epoxy Finish
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