



## RED OXIDE ZINC PHOSPHATE PRIMER

### Features

- Highly rust-inhibitive coating
- High adhesion properties when applied on properly prepared surfaces
- Suitable for use on chemical processing plants and transportation infrastructure
- Suitable for use as a tie coat between two

### General Description

Red Oxide Primer is formulated for use on ferrous and nonferrous metals in industrial and commercial applications. This epoxy primer is an excellent choice for use as a rust-inhibitive base coat when used as part of a high-performance coating system. With proper top coating, it demonstrates excellent resistance to moisture and chemicals, including solvents, acids, and alkalis. Red Oxide Primer is also suitable for use on concrete surfaces in secondary containment and immersion service applications. **This is a single-component product.**

### Recommended for

Properly prepared Steel, Iron, Galvanized, Aluminum, and other nonferrous metals. Guardian Zinc Phosphate Epoxy Primer is a multi-use epoxy primer for metal in the industrial maintenance market, food and beverage processing market, general metal finishing and fabrication market, chemical processing market, as well as transportation infrastructure finishing or other areas requiring a two-component, corrosion resistant primer for metal.

### 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 Red Oxide or Grey Colors only.

### TECHNICAL DATA

<b>Generic Type</b>	Alkyd Based	<b>Dries by</b>	Chemical Cure
<b>Pigment Type</b>	Titanium Dioxide	<b>Dry Heat Resistance</b>	230 °F (110°C)
<b>Volume Solids</b>	50% ± 5.0% (when mixed as recommended)	<b>Finish</b>	Eggshell
<b>Coverage per ltr</b>	100 – 120 Sq. Ft.at Recommended DFT	<b>Surface Temperature at Application</b>	Min. 15°C
<b>Recommended Film Thickness</b>	Wet: 65 ± 5 microns		Max. 35°C
	Dry: 35 ± 5 microns		Surface must be dry and at least 3°C above the dew point
<b>Induction time @ 30 °C</b>	20 Minutes	<b>Thinner</b>	Guardian Thinner for General Purpose
<b>Drying Time @ 30 °C</b>	To Touch: 2 to 3 Hours	<b>Pot Life</b>	No Limitation if stored properly
	To Recoat: 16 to 24 Hours	<b>Storage Temperature</b>	Min. 15°C
	Full Cure: 4 to 5 Days.		Max. 32°C
		<b>Recommended Topcoats</b>	Guardian Polyamide Epoxy
			Guardian Polyurethane Finish

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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 contents thoroughly before application. The use of a drill mixer at low speed will best accomplish this task. 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.

#### 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	

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