



Zinc Rich Primer

90% Zinc in the Dry Film – Equivalent of Hot Dip Galvanize for Corrosion Protection



Zinc Rich Primer is an organic zinc rich primer for steel and ferrous metals that **combines the resistance properties of epoxy and the galvanic protection of zinc.** This is a pure zinc epoxy base one-package primer.

This high performance epoxy compound fuses zinc to the metal substrate and protects against corrosion equal to Hot Dip Galvanizing (meets and exceeds ASTM A780 specification for touch-up and repair of Hot Dip Galvanize). Clearco Zinc Rich Primer is self-healing, and **prevents creepage even when the surface is penetrated or scratched.**

Uses include: Coastal and marine exposures, refineries, water treatment plants, chemical plants, pulp and paper facilities and applications including touch up and repair of inorganic zinc coatings and galvanic metal.

Topcoating: After curing, it may be coated with conventional primers and finishes such as epoxy, coal tar epoxy, vinyls, phenolics, urethanes, acrylics & chlorinated rubber

Surfaces Include:

<ul style="list-style-type: none"> Structural Steel Wrought Iron Welds Bridges Towers Damaged Galvanized surfaces 	<ul style="list-style-type: none"> Fences Gutters Food Plants Power Plants Refineries Interior of Automotive Panels
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Specifications

Appearance	Gray/Matte Finish
Coverage	646 sq. feet/gallon at 1 mil dry (100% efficiency)
Dry Film Thickness	1.5 to 3.0 mils
Zinc Content	90% in Dry Film
Drying Time	To Handle - 30 to 40 Minutes at 70°F To Topcoat - 2 to 3 Hours at 70°F
Temperature Resistance	250°F – Sustained 300°F – Intermittent
Weldable	Yes

Properties	
Weight/Gallon	19.9lb (+/- .2)
Packaging	1-gallon pail 5-gallon pail
Solids by Weight	79% (+/- 2%)
Solids by Volume	40% (+/- 1%)
VOC (lb/gallon) (Volatile Organic Content)	4.24
Flash Point	Below 80° (T.C.C.)
Shelf Life	6 Months
Non-Sag	30 mils wet minimum

Mil & ASTM Specification met:

ASTM A 780.....	Contains not less than 65% zinc dust by weight
P-26915A.....	Type 1 Class A Primer for Steel (USAF)
DOD-21035A.....	Zinc Rich Galvanize Repair
P-46105.....	Weld through Zinc Rich Primer
Salt Fog.....	Pass 1000 Hours ASTM B117
Humidity.....	Pass 500 Hours ASTM D2247

Application:	
Reduction	10 to 20% for Atomized Spray
Apply By	Spray/Brush/Roller
Recommended Film Thickness	1.5 to 3.0 mils
Drying time:	
To handle	30 to 40 Minutes @ 70°F
To top-coat	2 to 3 hours @ 70°F

For More Information, Contact:

Clearco Products Co., Inc.
 3430 G. Progress Drive
 Bensalem, PA 19020
 Tel: 215 639-2640
 Fax: 215 639-2919
 Email: info@clearcoproducts.com
 Web: www.clearcoproducts.com

SURFACE PREPARATION

New Steel: Surface must be dry and free of contamination. Remove all weld splatter and grind all rough welds and sharp edges to a smooth contour. For severe exposure (immersion, chemical etc) near-white blast clean per SSPC SP 10-63T. For other exposures, blast clean per SSPC SP 6-63 to a maximum profile of 1.5 mils.

Previously Painted Surfaces: Must be free of oil, grease or other contamination. For best results, spot blast exposed areas to be primed. Power tool brushings may be used for minor touch-up. Power tool brushings may be used for minor touch-up.

Mil & ASTM Specification met:

ASTM A 780.....	Contains not less than 65% zinc dust by weight
P-26915A.....	Type 1 Class A Primer for Steel (USAF)
DOD-21035A.....	Zinc Rich Galvanize Repair
P-46105.....	Weld through Zinc Rich Primer
Salt Fog.....	Pass 1000 Hours ASTM B117
Humidity.....	Pass 500 Hours ASTM D2247

SPRAYING

Surface shall be dry, 5°F above dew point with air temperatures greater than 50°F...must be free of rust bloom.

For air-atomized spray: reduce 10 to 20% with 100 percent flash Aromatic Solvent or Xylol for improved atomization. Fluid tips of .070" and air caps delivering 9-10 CFM at 30 lbs. PSI are acceptable. A 3/8" to 1/2" material hose is recommended.

For airless spray: use .023 to .029 tips with 900 lbs to 1,800 lbs. Fluid pressure.

Material should be kept under constant slow speed agitation during process
If further thinning is required, add 1 to 4% Xylol, Xylene or Mineral Spirits to reach desired consistency.

Double lap all welds, seams, corners & edges to ensure film thickness. Make even parallel passes with 50% overlap to provide uniformity.

FIRST AID

If swallowed, **DO NOT** induce vomiting. Contact physician immediately. In case of eye contact, flush immediately with clear water for a minimum of 15 minutes and seek medical attention. For skin contact, wash with soap and water. If overcome by vapors, remove to fresh air.

BRUSHING

Zinc Rich Primer has high viscosity and good anti-sag properties that are suitable for brushing. If container is exposed to open air for extended time, add small amounts of Xylol, Xylene or Mineral Spirits to thin to proper viscosity.

CONTAINS

Zinc Dust (CAS #7440-66-6), Xylol (CAS #1330-20-7), Ethyl Benzene (100-41-4), and VMP Naphtha-66 (CAS #64742-89-8)

CAUTION

Keep away from Heat, Sparks, Open flames, Electrical equipment etc. **DO NOT MIX WITH WATER OR USE WATER FOR FIRE.** (See MSDS Sheet)

CLEARCO

**3430 G PROGRESS DRIVE
BENSALEM, PA 19020**

Tel: (800) 533-5823

Fax: (215) 639-2919

Email: info@clearcoproducts.com

Web: www.clearcoproducts.com