



Technical Data  
Architect Specifications  
**Poxy Prime™**  
Anti-Rust Epoxy Primer

**Product Numbers:** EP-5050, EP-5065

**Description:** A two-component, 1:1 ratio, polyamide cured primer for use on clean and properly prepared metal or concrete surfaces. It offers excellent resistance to corrosion and exceptional adhesion to ferrous metal substrates. Resists solvents, dilute acids and alkali attack. Suitable for use for protecting concrete substrates in secondary containment applications.

**Recommended For:** Sewage Treatment Plants – Marine Environments – General Corrosion Environments – Paper Mills – Plating Facilities – Fuel Storage Facilities – On Aluminum – On Iron – On Steel – On Concrete

**Colors:** EP-5050 – Red Oxide EP-5065 – Gray

**Finish:** Low Sheen

**Physical Characteristics:**

Vehicle: Epoxy/Polyamide  
VOC: 3.15 lbs/gal. (378gms/liter)  
Flash Point: 85° F. Seta Flash (mixed)  
Viscosity: 80-85 KU  
Dry Heat Resistance: 250° F. Continuous, 275° F. Intermittent  
Salt Fog Resistance: ASTM B117 - 600 Hours – No Effect  
Elongation: ASTM D522 – 1/8" Conical Mandrel – Pass  
Adhesion: ASTM D3359 – Cross Hatch Adhesion - Pass  
Recommended Film: 2 – 6 mils (dry)  
Coverage: Theoretical coverage at one mil dry is 912 square feet per gallon. Material losses during mixing and application will vary, and must be taken into consideration when estimating job requirements.  
Dry Time: Set to touch in 2-4 hours at 70° F and 50% relative humidity. May be top-coated up to 7 days. Fully cured in approximately 7 days.  
Pot Life: 8 hours at 75° F. (Decreases with higher temperatures)  
Limitations: Substrate and ambient temperatures must be above 50° F. during the cure period and it may lift previous conventional coatings. Do not apply if material or ambient temperature is below 50° F. (10° C.). Relative humidity should be below 90%. Do not apply if surface Ph is above 10.  
Shelf Life: Minimum 12 months (unmixed)  
Solids by Volume: 56.9%  
Package: Two Gallon Kit  
Weight Per Gallon: 11.5 lbs. (mixed)

**Solvent:** Aromatic Hydrocarbons, Glycol Ether

**Reducer:** TH-0250 only. (Do not thin if doing so would result in Exceeding VOC limits)

**Clean Up:** TH-0250 Reducer

**Recommended Primers:** Steel: ZR-1650, ZR-3650 in severely corrosive environments - Concrete: EP-5500

**Application:** Brush, Roller or Spray  
Roll: ½" Lambs Wool or 3/8"-1/2" Synthetic Roller Cover. Roll in one direction, rewet, then cross roll.

**Surface Preparation:** All surfaces must be sound, dry, clean and free of oil, grease, dirt, mildew, mill scale, foam release agents, curing compounds, loose and flaking paint and any other surface contaminants. New Surfaces: **CONCRETE AND MASONRY** – All masonry surfaces must be allowed to cure a minimum of 30 days before painting. Acid etch or abrasive blast all slick, glazed concrete or concrete with laitance. For acid etching, follow all manufacturers' directions and safety instructions. Rinse thoroughly and allow to dry. Prime concrete with 1 coat of EP-5500 Pre-Primer. **STEEL AND FERROUS METALS** – All direct to metal coatings provide maximum performance over near white metal blasted surfaces (SSPC-SP-10). There are, however, situations and cost considerations that may prevent this type of surface preparation from being done. EZ-Clean coatings have been designed to provide protection over less than ideal surfaces. The recommended standard is a commercial blast (SSPC-SP-6). The steel profile after the blast should be 1 – 2 mils and should be jagged in nature. Surfaces must be free of grit dust. The coating should be applied as soon as possible after the blast in order to prevent flash rusting or surface contamination. Hand tool cleaning (SSPC-SP-2) or power tool cleaning (SSPC-SP-3) can be used if blasting is not possible. In areas where adequate surface preparation is not possible, the use of EP-5500 Pre Primer is recommended. In highly corrosive areas where additional rust inhibitive qualities are required, prime with 1 coat of ZR-1650 prior to applying epoxy coatings. **GALVANIZED AND NON-FERROUS METALS** – Solvent clean all surfaces. Apply 1 coat of a Vinyl Wash Primer. **PREVIOUSLY PAINTED SURFACES** – Can be applied over old thermo set finishes in good condition. Test patches are recommended to check for wrinkling or lifting of existing coatings. EP-5500 Pre-Primer may be used on all existing coatings. **NOTE:** All high gloss surfaces can be slippery. Where non skid properties are required, a non skid additive should be used. All epoxy coating will chalk and fade if applied on exterior surfaces subjected to direct sunlight. Where color and gloss retention are important, top-coating will be necessary. Surface will stain with prolonged exposure to brake fluid or in a kennel if exposed to animal waste. This staining will not effect the durability or protective qualities of the coating. Coating will not cure at surface temperatures below 50° F. Not for immersion service.

**Mixing:** Agitate component "A", then add Component "B" activator. Mix in equal volumes. Allow mixed solution to stand ½ hour before using. Mix only what you expect to use in an 8 hour period (assuming standard conditions). Mix with power mixer at low to medium speed; this will ensure adequate mixing of the two components.

**Safety Information:** FLAMMABLE! HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL. SKIN AND EYE IRRITANT. CONTAINS GLYCOL ETHER, HIGH FLASH NAPHTHA AND XYLENE. Keep away from hear, sparks and flame. To avoid breathing vapors or spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection (NIOSH/MSHA TC23C or equivalent) or leave the area. Close container after each use. Avoid contact with skin or eyes. **FIRST AID:** If swallowed, do not induce vomiting. Call physician immediately. In case of eye contact, immediately flush thoroughly with water and call a physician. For skin contact, wash thoroughly. USE WITH ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN. **NOTICE:** Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

**HMIS VALUE:** H = 2                      F = 3                      R = 0                      PP = C

Supersedes all previous data sheets. All technical data, recommendations and services are accurate at the date of issuance, but are subject to change without prior notice. Seller assumes no responsibility for the results obtained or damages incurred from their use by the Buyer in whole or in part. No warranty, including those of merchantability or fitness for a particular purpose is expressed or implied since the method of application and its use is beyond our control. There are no warranties which extend beyond the description or the face hereof.

**K. Coatings, LLC**  
32400 Aurora Rd., P.O. Box 391699; Solon, Ohio 44139  
Ph: (440) 248-8288 Fax: (440) 349-2267