

PRODUCT DATA SHEET

RETEK EPOXY ZINC RICH PHOSPHATE PRIMER

Description:

Retek's Epoxy Zinc Rich Phosphate Primer is a primer and is in effect cold galvanizing. The Zinc metal in the coating has the effect of coating the steel surface with zinc metal due to electrochemical action affording protective similar to that given by hot galvanizing. Cures to a hard tough film. We offer a grey or green colour, which comes in a pre-measured kit form.

Recommended uses:

General anti corrosive two-component primer over steel surfaces. Retek Epoxy Zinc Rich Phosphate Primer may also be used as an intermediate coat, with a Retek Poly Urethane top coat. Or a 3 component system; Epoxy Zinc Rich Phosphate Primer, Amour Coating and Poly Urethane Top Coat.

Uses:

- Structural Steel
- Pipes in the petrochemical and chemical processing and other facilities

Product Properties:

- Easily applied by Mohair Roller / Epoxy Pile Roller, brush, spray and airless spray.
- High durability coating with excellent mechanical strength. (Dropping sharp and or heavy objects could damage the coating)
- Cures to a tough coating, requires a top coat.
- 250 Microns thick coating (per layer applied with roller)
- Available in a green or grey colour.

- **Technical Data:**

Colour	Grey or Green Colour
Finish	Matt finish
Mix Ratio	4 : 1
Activator	Retek Zinc Rich Phosphate Epoxy – Part B (Hardner)
Typical Film Thickness	250 microns thick per coat (applied by roller)
Theoretical Coverage	1kg – 2 to 3 sqm at +/- 250 microns; (applied by roller) 5kg – 15 sqm at +/- 250 microns; (applied by roller) 25kg – +/- 75sqm at +/-250 microns (applied by roller)
Method of Application	Brush, Mohair / Epoxy Pile Roller, spray and airless spray
Number of Coats	We recommend 1 coat Retek Zinc Rich Phosphate Epoxy Primer with a Poly Urethane Top coat. A Retek Amour Coating can be used as an intermediate coating.

Surface Preparation:

Remember; **Preparation is key!** The coating can only be as good as the surface it is bonding to.

Surfaces must be clean, dry and free from oil's, grease, rust, dirt and any loose particles.

Sandblasting surfaces to ISO-SA½ blasting profile 40 – 70 microns or power clean as per SANS 10305-5:2005 3.2.1.4.

Mechanical sanding or hand sanding can also achieve great results.

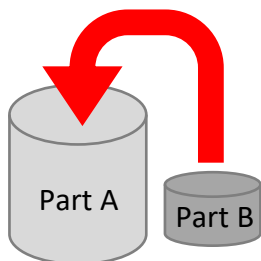
Wipe down the surface with Retek's Thinners.

Please refer to Retek's Application Process for more surface preparation information.

Application:

- Retek's Epoxy Zinc Rich Phosphate Primer consists of two parts; Part A (Product), Part B (Hardner) and should be mixed at a ratio of Part A 4 : 1 Part B.

Mix Part B into Part A and stir well with a flat paddle or electric mixer. Try not to air rate the mixture to prevent foaming. Stir frequently to keep the chemicals from separating during the application.



Once mixed leave for 5 to 10 minutes and then start with the application. Ideal application temperature is 21°C.

Easily applied by Mohair Roller / Epoxy Pile Roller, brush, spray and airless spray. Use a brush for along edges, corners and touch ups. Use an air spray with sufficient air volume and a 1.8 – 2mm nozzle, and can be thinned, if necessary, with Retek's Thinners 300.

Pot Life – Once mixed use within 2 hours.

Apply Retek's Poly Urethane as a top coat.

- Retek's Poly Urethane consists of two parts; Part A (Product), Part B (Hardner) and should be mixed at a ratio of Part A 4 : 1 Part B.
- Mix Part B into Part A and stir well with a flat paddle or electric mixer. Try not to air rate the mixture to prevent foaming. Stir frequently to keep the chemicals from separating during the application.
- Retek's Poly Urethane can be sprayed using a conventional spray gun, airless spray gun, roller or brush.
- DO NOT thin down with thinners, use ONLY Retek's Solvent Blend.**
- Wait +/- 12 hours to dry (drying times may vary depending on temperatures)
- Full curing time is 7 days.

Drying Information:

Wait 24 hours for the coating to dry, cooler weather may take longer to dry.

- 24 Hours Touch dry at +/- 20°C
- Full curing time 7 days, however low temperatures, thickness and number of coating layers can extend curing time up to 21 days.

Pack Size:

1kg Epoxy Zinc Rich Phosphate Primer - Two Part Kit:	
0.800kg	Epoxy Zinc Rich Phosphate Primer.
0.200kg	Hardner

5kg Epoxy Zinc Rich Phosphate Primer - Two Part Kit:	
4kg	Epoxy Zinc Rich Phosphate Primer.
1kg	Hardner

25kg Epoxy Zinc Rich Phosphate Primer - Two Part Kit:	
20kg	Epoxy Zinc Rich Phosphate Primer.
5kg	Hardner

Storage:

- Store in dry conditions out of direct sunlight, away from sources of heat or ignition.
- Shelf Life: 3 months minimum at 25°C from date of manufacture.

Safety instructions

Flammable liquid. Harmful or fatal if swallowed. Keep out of reach of children. Protect bare skin areas with gloves and other protective clothing. Use only with adequate ventilation. Inhalation of vapors must be avoided. Use an air respirator / full face mask. Do not pour leftover material into drain. Keep unwanted material in sealed container for disposal via special chemicals waste collections

Keep out of reach of children.

First Aid

If swallowed, do not induce vomiting. Drink water and seek medical help or contact Poisons Information Centre. If in eyes, flush with water for at least 15 min. Contact physician if necessary.

Product of Rock Hard Resins (PTY) LTD T/A Retek Epoxy Coatings

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