

ShaliPrime[®] Zn Ph

2K Anti-Corrosive Zinc Phosphate Primer



STP Limited

Description

ShaliPrime[®] Zn Ph is a two component, polyamide cured, zinc phosphate anti-corrosive epoxy primer for metal surfaces.

ShaliPrime[®] Zn Ph gives excellent adhesion to steel and is compatible with a wide range of topcoats and thus forms highly efficient protective schemes for corrosive, coastal and chemical environments.

ShaliPrime[®] Zn Ph does not consist of any lead pigment.

Depending on customer's requirement, we can also provide **ShaliPrime[®] Zn Ph 60** having 60% volume solid.

Characteristics

Colour	Grey	Pot Life, 30 °C, hr	4
Theoretical Coverage*, m ² /L	5.00 – 8.00	Recoating time, 30 °C, hr	8 - 80
DFT*, micron	60 – 100	Curing Time Full Cure, days	7
Application Temperature, °C	10 - 50	Substrate Temperature, °C	>10 to < 50
Drying time, 30 °C		Adhesion, Mpa	> 7
• Touch dry, minute	35	Volume solid, %	48 – 50
• Hard dry, hrs	9	Density, gm / cc	1.35 ± 0.05
• Overcoating, hrs	8 - 10	Lead pigment	Nil

* Depending upon surface condition.

Application

- A high build epoxy anti-corrosive coating suitable for use as a blast primer for structural steelwork in mild to aggressive environments.
- As primer for marine and chemical environment as in
 - Pulp and paper mills,
 - Refineries,
 - Petrochemicals,
 - Fertilizer units,
 - Metal and Engineering industries.

Advantages

- Excellent anti-corrosive performance.
- Good chemical and abrasion resistance.
- Facilitates adhesion of top coat onto difficult substrates.
- Non-toxic, safer to use as compared to chromate version.

Application Methodology

➤ Surface Preparation

- Remove dust, flakes, or other foreign particles by jet or dry air and clean the surface mechanically as per the guidelines given by SSPC-SP1 to achieve Sa 2.5 grade.
- Remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface, where necessary
- Ensure that the substrate temperature is in the range of 10 °C – 50 °C.
- Ensure that the substrate temperature should be more than 3 °C above Dew Point.

- Apply ShaliRustOff on the surface where wire brush is not reachable and allow the surface to dry for 30 minutes.
- Apply **ShaliPrime® Zn Ph** immediately after blasting to prevent oxidation and recontamination of the steel surface.

➤ **Material Preparation**

- Stir entire Component A thoroughly by using speed drill mixer with a spiral type blade at the bottom of stirrer rod. The speed may be 300 - 400 rpm till homogeneous mix is obtained.
- Add entire Component B in Component A. Both Component A & B comes in factory pre-weighed quantity in the ratios of 4 : 1 by volume.
- After stirring, wait for 5 minutes to ensure escape of entrapped air.

➤ **Application of Material**

- Apply **ShaliPrime® Zn Ph** by brush / roller / spray. When applied by airless spray gun, ensure that the minimum working pressure of 140 kg / cm² with a spray tip size 0.43 – 0.53 mm and a spray tip angle of 65 °C.
- Ensure that the base and the hardener are at the minimum temperature of 15 °C when mixed for satisfactory spray application.
- **ShaliPrime® Zn Ph** may be over coated with conventional paints or two-pack epoxy paints and polyurethane. Over-coating can be done after 8 - 10 hrs; however,
- It is recommended to coat the finish paint after 12 - 24 hrs of application of primer to obtain superior performance.

Health & Safety

- The product should not come in contact with the skin and eyes or be swallowed.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately.
- **Do not** induce vomiting.

Packing

Available in 15 L container consist of Component A 12 L and Component B 3 L.

Storage

Store in a cool dry place, under shed, away from heat.

Shelf Life

12 months in original unopened sealed condition.



STP Limited
Enhancing Structures' Life

Product Range

- Waterproofing & Insulation ■ Road Surfacing
- Sealants & Adhesives ■ Pipeline Coatings
- Protective/Anti-Corrosion Coatings ■ Epoxy and Flooring
- Grouts and Admixtures (GARA)
- RestoFix - Repair/Rehabilitation ■ Other Construction Chemicals



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