

ShaliPrime[®] ZnSI

2K Moisture Curing Zinc Silicate Primer



STP Limited

Description

ShaliPrime[®] ZnSI is a two component, moisture curing solvent based zinc rich ethylsilicate primer for protection of steel against severe corrosive environment. **ShaliPrime[®] ZnSI** provides excellent cathodic protection to steel substrates and forms a tough abrasion resistant film.

It complies with IS: 14946-2001.

Characteristics - Physical

Colour	Grey	Finish	Matt
Mixing Ratio W/W (Binder : Powder)	2 : 3	Theoretical Coverage, m ² / L, DFT *	8 – 10 60 – 75 micron DFT
Pot Life (30 °C, 50% RH), hrs	6	Volume Solids, % (approx)	60
pH	5 - 10	Salt Spray Test for 1000 hours at 75 microns DFT	Excellent
Specific Gravity (Mix)	2.17 ± 0.1		
Protection against corrosion under condition of condensation for 1000 hours at 75 microns DFT	Excellent	Mud-cracking (when viewed under 10X magnification)	Satisfactory, The coating applied to a dry film thickness of 120 microns, shows no any mud cracking.
Dry Heat Resistance °C	Upto 400		
Application temperature °C	5 - 50	Surface temperature °C	3

* Depending upon surface condition.

Characteristics - Technical

Properties	Standard	Result
Flash Point, °C	IS:101 (part 1/Sec 6)	> 15
Drying Time, 27 °C, 60% RH	IS:101 (part 3/Sec 1)	15 minutes 2 hrs (min) 24 hrs (min)
<ul style="list-style-type: none">• Surface Dry• Hard Dry• Overcoating		

Application

- Steel structure, pipelines.
- Refineries, petrochemical units, power plants.
- Exterior and interior of storage tank, fertilizer units.
- Offshore and corrosive industrial environments.

Advantages

- Excellent water resistance.
- Excellent salt spray resistance.
- Excellent solvent resistance.
- Excellent weatherability.
- Excellent abrasion resistance.
- Very good alkali resistance.
- Good acid resistance.
- The coating attains water resistance within 30 minutes of application.

Application Methodology

➤ Surface preparation

- Ensure that surface is cleaned from oil free compressed air, sandblasting, wire brushes or other mechanical means to ensure removal of all rust, oil, grease, dirt, or any other loose particle prior to application of primer as per Swedish Specification standard SIS-05-5900-1967.

➤ Material Preparation

- Add Component B into a suitable container containing and there upon, add Component A slowly whilst mixing thoroughly mix it preferably in a Jiffy Mixer.
- Crush any globules formed to make uniform paste and continue mixing.
- Allow the mixture to mature for 15 minutes before application.
- Stir again before use and continuously during application.

➤ Application of Material

- Apply through-
 - **Airless Spray** : Tip size 0.38 – 0.53 mm (approx. 15 – 21 thou). Tip pressure 1500 – 2300 psi (approx. 105 – 162 Kg / cm²).
 - **Air spray** : Tip size 2.0 – 3.0 mm. Tip pressure 40 – 60 psi (approx. 2.8 – 4.2 Kg / cm²).
 - **Brush** : Suitable for small area only.
 - **Thinner** : Apply preferably without thinning. Add upto 5% STP Thinner depending on conditions.

Health & Safety

- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapor.
- 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, wash immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately. Do not induce vomiting.

Packing

Available in 20 L (mixed paint)

Storage

Keep in cool and dry place in air tight container under shed away from heat.

Shelf Life

6 months in original unopened sealed condition.



STP's Businesses
Waterproofing & Insulation
Road Surfacing
Pipeline Coating
Protective / Anti-Corrosive Coating
GARA (Grouts & Admixtures)
Sealant & Additives
Repairs & Rehabilitation
Epoxy Flooring



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