



Technical Data Sheet

INORGANIC ZINC SILICATE COATING

Scope

A two pack self-curing solvent based inorganic Zinc Silicate Primer with an extensive service record as a single coat system or in conjunction with suitable top coats.

Provides outstanding cathodic protection to steel surfaces preventing corrosion under the most aggressive weathering conditions. It provides a tough, abrasion resistant film unaffected by weather, sunlight, fresh or salt water spray or extreme temperature. It is however, not recommended for contacts with strong acids or alkalis of pH below 5 or exceeding 10.

The coating attains water resistance within 30 minutes of application and is unaffected by rain, condensation or dew.

Uses

Recommended for use on steel structures, bridges, interior and exterior of storage tanks, bulk handling equipment, pipelines etc. Extensively used as new construction primer in fertilizer, petrochemicals, chemical industries, thermal and nuclear power plants as well as other installations exposed to saline and highly corrosive environments.

Product Data

Type	:	Two pack self-cured
Composition	:	Ethyl Silicate/Metallic Zinc
Mixing Ratio	:	Part A: Part B-35:65 by weight
Pot Life	:	4-6 Hrs.
Application	:	Conventional and airless spray. Brush for small areas
Recommended DFT	:	65-75 microns percoat
Corresponding WFT	:	106-125 microns percoat
Theoretical Spreading Rate	:	8-9.2 Sq. Mtr./Ltr.
Drying Time	:	TOUCH: 30 minutes HANDLE: 3-4 hours HARD: Overnight
Curing Time	:	6-7 days
Overcoating Interval	:	Min: Overnight Max: Indefinite
Flash Point	:	Below 22°C
Colour	:	Grey
Packing	:	20 Ltrs. and 25 Ltrs.
Thinner/Cleaner	:	Thinner
Finish	:	Matt

Storage Life: Up to six months maximum as long as the sealed containers are kept under cover in a dry place under normal temperature conditions.

Resistance Guide

Chemical Resistance (with proper top coat)

Exposures	Splash and spillage	Mild Fumes/ Outdoor Resistance
Acids	Very Good	Excellent
Alkalis	Very Good	Excellent
Solvents	Excellent	Excellent
Salt	Excellent	Excellent
Water	Excellent	Excellent



Technical Data Sheet

INORGANIC ZINC SILICATE COATING

Temperature Resistance:

Continuous: 400°C

Intermittent: 426°C

Weatherability : Excellent

Flexibility : Fair to Good

Abrasion Resistance : Excellent — increases with age

Surface Preparation

Remove grease, oil and other contaminants preferably by using Degreasing Solvent. Blast clean to a minimum of Sa 2 1/2 Swedish Standard SIS 05 5900 with a surface profile not exceeding 65 microns.

The surface should be clean and dry before application.

Application

Stir Part A thoroughly to uniform consistency. Weigh out the components in the recommended proportion and slowly add Part B (Zinc Dust) to Part A with constant stirring—preferably with a mechanical stirrer. Continue stirring until the powder is thoroughly dispersed. Strain the mixture through a 80 mesh sieve. Allow the mixture to mature for 15-20 minutes before application. Stir again before use and from time to time during application.

Conventional Spray: Add upto 5% Thinner depending on conditions. Use any standard equipment at an atomising pressure of 3.5-4.4 Kg/cm².

Airless Spray: Apply without any thinning. Use any standard equipment having pump ratio 30:1 Tip Size 0.38 mm to 0.43 mm. Tip Pressure 110-160 Kg /cm².

Notes

1. Use off the mixed paint within the stipulated pot life period.
2. Cures by reaction with moisture and may be applied at high humidity provided the blasted surface itself is free from condensation and meets the requirements of Sa 2 1/2 Swedish Standard.
3. Application equipment should be cleaned with Thinner 870 otherwise they are liable to be damaged.
4. At lower relative humidity, drying and curing are likely to be extended.
5. Damaged areas can be touched up with Zinc Rich Primer.
6. Refer Std Ins. for temp

Health & Safety: Please refer to the separate safety data sheet available with detailed information.

Disclaimer:

The information contained within this data sheet is based on information believed to be reliable at the time of its preparation. The Company will not be liable for loss or damage howsoever caused including liability for negligence which may be suffered by the user of the data contained herein. It is the users' responsibility to conduct all necessary tests to confirm the suitability of any product or system for their intended use. No guarantee of results is implied since conditions of use are beyond our control.