



Product Description

Zinc Ethyl Silicate Primer is a two component self-curing (reaching with atmospheric moisture), solvent based zinc ethyl silicate coating .As a primer with suitable topcoats, it is recommended for fumes and splash of mild alkalis, salt solution corrosion and abrasion agents .It is temperatures resistance in continuous service is max 400 °C and in intermittent service is MAX 420°C.

Recommended Use

This coating has high zinc content provides a cathodic protection film with the maximum performance on structural steel ,machinery pipes and tanks exterior ,oil refineries and water treatment plants as well as decks and hulls of ships.

Surface Preparation

1-1: All surface to be coated clean, dry and free from contamination. Fresh water wash or water wash with high pressure, as appropriate, and remove all oil or grease, soil contaminants, and other detrimental foreign matter in accordance with SSPC-SP1 solvent cleaning.

1-2: For optimum performance " Near White Blast Clean "blast cleaning sa2 1/2(ISO 8501-1 :1998) or SSPC- SP 10 is recommended if oxidation has occurred between blasting and application of this coating ,the surface should be re blasted to the specified visual standard.

1-3: Angular surface profile of 40-50 μ is recommended.

Product Description

Shade:	Grey
Percentage of vehicle :	25%-30%
Percentage of pigment:	70%-75%
Percentage of zinc in total pigment	97%-98%
Percentage of volume solids:	35%-45%
Dry film thickness:	50-70μ
Specific gravity :	2.6-2.9 Kg/Lit
Mixing ratio by weight: A/B	32:13
Shelf life:	A= 6 month , B= 12 month
Salt spray chamber test:	1000h(ASTM B-117)
Humidistatic chamber test:	1000h(ASTM D -2247)
Heat resistance:	MAX 400°C
Theoretical Coverage:	2.5-3 m ² /kg
Thinner :	Ethyl Silicate Thinner Rangin Zereh Sepahan
Flash point:	15°C
Perfect conditions of application:	Maximum humidity
Recoating interval time:	1-30 days





Temperature	Humidity	Touch dry	Full dry	Interval	Pot life
15°C	50%	50 minutes	5-7 days	Relation of atmospheric conditions	3hours
	50%<	40-45 minutes	5 days		
25°C	50%	20-25 minutes	3-5 days	24 hours	
	50%<	10-15 minutes	3days	16 hours	2hours
40°C	50%	10-20 minutes	3days	16 hours	
	50%<	5-10 minutes	1 days	12 hours	1hours

Dry times are depended on applied film thickness, all data in this catalogue are reported at recommend D.F.T in laboratory conditions.

Environmental Conditions

To prevent moisture condensation during application surface temperature must be at least 3 °C above the dew point .In hot climate, material temperature should be 20 to 25°C.For satisfactory cure air and surface temperature must be above 10°C.Never apply coatings under reverse environmental condition .Paint shall not be applied when wind speed is in excess of 5 m/s.

Application Details

Airless spray	Tip range: 0.015-0.021 Total out put pressure at spray tip not less than 112 bar.
Air spray	Nozzle orifice:1.8-2.0 mm Nozzle pressure:2-4 bar
Brush	30-40μ (touch up)
Roller	30-40μ (touch up)

Application Procedure

- 1:-Flush all equipment with recommended cleaner to remove any present moisture that may cause hardening of the product in equipment.
 - 2: Stir powder B in to liquid A until it is well dispersed and mixture is free of lumps.
 - 3: Stir during application to maintain uniformity of materials (because of zinc dust is setting).
- Note: since the pot life is limited and shortened by high temperatures, do not mix more material than will be used within the pot life time.
- 4: For air spray, thin with no more than 2-5% of recommend thinner for workability for airless spray thinner is not recommended.
 - 5: Apply wet coat by parallel passes overlap each pass 50% to avoid bare areas.
 - 6: Clean all equipment with recommend cleaner immediately after use.

Safety

This product is flammable keep away from heat and open flame operator (accordance MSDS of this product) must use special mask and safety gloves and operation should be performed in environments which is equipped with suitable air conditions.

Storage Conditions

Store in closed container and away from direct sunlight at temperature of 5-35 °C.

