

ZINC SILICATE PRIMER PREMIUM

(Component A & Component B)

Product code: PS1507

Composition and Application Field

EVI Zinc Silicate Primer Premium is a two component solvent borne, self-curing, inorganic zinc silicate with outstanding resistance weathering and abrasion. It has excellent resistance to mild acids, bases and other chemicals. Resistance to permanent (non-cyclic) dry temperature as well as occasionally dry peak temperatures up to max 500°C.

Use

Substrates: As an anticorrosive primer containing good quality Zinc for general purpose protection of structural steelwork, chemical plants, pipelines, overhead cranes, steel structures etc.

Area of Use: Steel and Metal Structures, for long time protection.

Specification

Finish	: Flat
Colour	: Gray
Specific gravity	: 3kg/liter
Mixed Solids (% by volume)	: 67 ± 2%
Mixing Ratio	: 5.4 : 10 (Component A: Component B vol / vol)
Pot Life	: App 8 hrs. (at 30°C)
Diluent	: EVI Zinc Silicate Thinner
Flash point	: 27°C (mixed)

Spread Rate:

While the spread rate is directly dependant on the surface profile and also the type of undulations it has, as a thumb rule **EVI Zinc Silicate Primer Premium** would cover 10 to 12 sq. meters per lit.

Drying Time (30° C)

Set to touch: <30 minutes.
Ready for Recoat: app 30 minutes.
Full cure: app 36 hours.

Recommended DFT

App 75 – 100 mic per 2 coats, for long term without topcoat.
App 50mic per 1 coats, if topcoated with a heavy – duty system.

Surface Preparation

A good surface preparation and following the method statement / recommended system procedure of EVI is an ideal recommendation for the application of EVI Zinc Silicate Primer Premium.

For Metals:

In case of mild conditions of application, remove the previous coat with a mechanical tool, wire mesh, or a mild sweep blast is to be done.

In case of detailed surface preparation is warranted, remove all wax, oil and grease should be removed by solvent cleaning in accordance with the guidelines given by SSPC-SP1. Where necessary remove weld spatter and round off all rough weld seams and sharp edges to a smooth surface. Ideally abrasive blast clean to a minimum standard of Sa 2½ Swedish Standard SIS 05 59 00 or ISO 8501-1:1988. Any surface defects revealed by blast cleaning should be ground, filled or treated in a suitable manner. After blasting, remove dust from the surface. The surface to be coated must be clean and dry with EVI Zinc Silicate Primer Premium before applying the top coat.

Exclusions for successful application include perpetually wet surfaces and also large cavities on metal and wooden surfaces.

Application Method

Adequate ventilation is an ideal situation as it helps in drying and the good application itself. Avoid high humid conditions i.e., >95% when condensation is likely to interfere and also when the surface temperature is at least 3°C above dew point.

Application:

-EVI ZINC SILICATE PRIMER PREMIUM can be applied by conventional spray equipment (pressure pot type) airless spray equipment or by brush.

-Do not open packing until immediately before use.

-Maintain constant agitation of the mixture until the batch is depleted.

-The spray gun should be kept at a distance of 30-50 cm from the surface. It is generally recommended to give a mist coat followed by a full coat.

-All places difficult to cover properly by spray application must be stripe coated with a brush immediately before or after the spray application.

-For airless spray equipment, a large slow working pump is preferred, eg 30:1., with a pump capacity of 8-12 litres/minutes the in-line filter should be 60 mesh. Gaskets: Teflon

-Nozzle orifice: 0.019" THROUGH 0.023"

-Fan angle : 40° through 70°

-Nozzle pressure: 100 -150 bar (1400-2100 psi)

-One can add EVI Zinc Silicate Thinner for achieving spray viscosity of app 40 – 45 secs on Ford cup 4 ASTM at 30 ° C and for ease of application.

Caution: Over diluting would result in a sag and run downs.

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Technical Paint System

EVI Zinc Silicate Primer Premium Recommended system to be applied as per surface preparation. - Or as per EVI technical advice	- Blasted and ready with required profile. 1 single coat of 75 microns (DFT) -Followed by a suitable epoxy system	- 1 coat - As per recommendation
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Safety Precaution

Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use a barrier cream. Other industrial practices are applicable. Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe vapour or spray. MSDS is available on request for the safe handling of this product.

FIRST AID

Eyes: In the event of accidental splashes, flush eyes with warm water immediately and obtain medical advice.

Skin: Wash skin thoroughly with soap and water or approved Industrial cleaner. DO NOT USE solvent or thinners.

Inhalation: Remove to fresh air, loosen collar and keep patient rested.

Ingestion: In case of accidental ingestion DO NOT INDUCE VOMITING. Obtain immediate medical attention.

Storage & Shelf Life

Under dry and cool condition, Storage stability can be sound up to 18 months in original sealed containers. In no way should the component A & component B be mixed and kept.

HANDLING

Disposal: As per the guidance and legislations of the local Authority e.g., by controlled landfill. In case of doubt, consult local authority. Do not empty into drains, sewers or other water courses.

Flash Point: 27°C and contains organic solvent.