INDUSTRIAL COATING DIVISION

ETCH PRIMER

(Component A & Component B)

Technical Data Sheet

Product code: PS1601+M

Composition and Application Field

EVI Etch Primer is based on a two component composition designed to be an ideal primer for non-ferrous surface. It is based on protective pigments like zinc chromates and organic acids and a selected PVB resin. It accepts many of the two pack and single pack products for over coating. The organic acid component helps to etch the surface. It can be used as a specification primer as BS 5493 meets surface preparation criterion of AP2A.

Substrates: For non-ferrous surfaces, especially aluminum, copper and galvanized steel.

Area of Use: It gives a good acidic pretreatment for non-ferrous metals to ensure good adhesion of top coats.

Specification

Finish	: Semi gloss to matt with very slight sheen.
Color	: Yellow with a greenish undertone.
Specific gravity	: Comp A: 0.93 ± 0.02, Comp B: 0.89 ± 0.02 (Mix SG 0.89 ± 0.02)
Solids (% by volume)	: Comp A: 13 ± 1% , Comp B: 9 ± 0.02% (Mix Vol Sol: 9 ± 0.02%)
Mixing Ratio	: 4 : 1 (Component A: Component B vol / vol)
Pot Life	: 1-1½ hr (at 30°C)
Diluent	: EVI Etch Primer Thinner
Flash point	: 12°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 Etch Primer would cover 10 – 16 sq. meters per lit.

Drying Time (30° C)	: Set to touch: 15-20 min : Ready for Recoat: App 1 hour. (Ultimate curing 7 days)
Recommended DFT	: While 5 to 6 µ is an ideal recommendation it should never exceed 8 µ

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 Etch Primer.

For Non Ferrous surfaces:

Before applying the primer remove all wax, oil and grease by solvent cleaning in accordance with the guide in lines with the surface preparation methods as per requirement. (Consult EVI surface manual if doubtful). One may use EVI Etch Primer thinner and an abrasive thinner to improve subsequent adhesion. Thus ensure that the surface to be coated should be clean and dry.

Galvanised Steel or Zinc metal spray:

Before application ensure that white zinc and other surface contaminants are removed by abrading with abrasive paper or suitable mechanical tools. primer remove all wax, oil and grease by solvent cleaning in accordance with the guide in lines with the surface preparation methods as per requirement. (Consult EVI surface preparation manual if doubtful). Thus ensure that the surface to be coated should be clean and dry.

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.

Conventional Spray: It is the most recommended method of application Use standard equipment & a pressure of 2.8-3.0 kg/cm^2 (40-45 psi).

Brush or Roller: This method may be adopted for substrates with difficult shapes or touchup; however care must be taken not to exceed the recommended film thickness and ensure that an even film is applied.

Air less spray: For larger areas it is the best recommended method of application but great care must be taken to ensure the recommended film thickness are not exceeded. Use a tip with a wide fan width. Tip Size: 0.22 - 0.30 mm (0.009 - 0.011 in) Pressure: 90 - 130 Kg/cm^2 (1300-1800 psi). **Caution:**

1. The product may not be giving the right adhesion if over coated to achieve the obliteration as it does not have shown good opacity.
2. Over coating must be done within 2 hours of drying on the same day.
3. Do not apply after the pot life is lapsed.

Paint System

EVI ETCH PRIMER (PVB BASED)

- **EVI Etch Primer (PVB Based)**	1 coat
- EVI Epoxy Pigmented Primer	1-2 coats
- EVI Epoxy Top coat	2 coats

* Recommended system to be applied as per surface preparation, or as per EVI technical advice.

Storage and Shelf Life

Under dry and cool condition, storage stability can be sound up to 18 months in original sealed containers.

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: 12°C and contains organic solvent. Caution: It is strongly advised not to keep open half used drums as it forms a skin on the top layer.

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. 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.

Date Revised: March 13, 2017