

EPOXY HIGH BUILD MIO

Product code: PS2522

Composition and Application Field

EVI High Build Epoxy MIO is a Polyamide cured Epoxy High build primer or mid coat in high performance protective coating system designed for industrial and marine environments. It provides excellent corrosion protection to the substrates due to its very high Micaceous Iron Oxide (MIO) content. It can be used as a direct to metal (DTM) primer or on top of Zinc Silicate or Epoxy Zinc Rich Primers. When top coated with Polyurethane, Vinyl or Chlorinated Rubber, the material can provide excellent protection to any steel structure exposed to the harsh environments.

Use

Substrates: As a primer or anti corrosive mid coat providing excellent adhesion and build for tank coatings, structural steelwork, chemical plant pipelines, cranes steel structures etc.,

Area of Use: Steel and Metal Structures.

Specification

Finish	: Matt
Colour	: Dark Gray
Specific gravity	: Mixed SG 1.98 kg/liter
Mixed Solids (% by volume)	: Mix Vol Sol: 64 ± 1%
Mixing Ratio	: 3:1 (Comp A:Comp B vol/vol)
Pot Life	: App 4 - 5 hour (at 30°C)
Diluent	: EVI Epoxy 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 Epoxy High Build MIO** would cover 5 to 6 sq. meters per lit.

Drying Time (30° C)	: Set to touch: <2 hours.
	: Ready for Recoat: app 6 hours
	: Full cure: app 7 days.

Recommended DFT : 50 – 150 microns

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 Epoxy High Build MIO**.

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 Epoxy Primer** before applying **EVI Epoxy High Build MIO** and then the top coats.

For Aluminum:

Degrease and abrade with **EVI Epoxy Thinner** and wet-or-dry paper. Apply **EVI Epoxy High Build MIO**. Immediately follow with the topcoat.

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

When mixed, the product can be applied by brush or airless spray or if the viscosity is too high as in during winter times, addition of thinner of up to 15 percent using **EVI Epoxy Thinner**. A normal brush or a roller may be used for difficult shapes or hard to reach areas. When applied by airless spray, ensure that the pressure be at 2100 psi for good atomization. Nozzle size should be 0.017 – 0.023 inches.

Technical Paint System

EVI EPOXY HIGH BUILD MIO	50 – 100 microns
-EVI Zinc Silicate Primer or	
EVI Epoxy Zinc Rich Primer	
-EVI Epoxy High Build MIO	50 – 100 microns
-EVI Epoxy Topcoat or	50 – 100 microns
EVI 2K Topcoat	

*Or as per EVI technical advice.

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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.

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.