

TM

# VERL@C MIO/MIO HS

## HIGH BUILD TWO COMPONENT MIO BASED EPOXY COATING FOR STEEL STRUCTURE

### BENEFITS

- High resistance to abrasion and mechanical damage.
- Gives excellent resistance to dilute acids, alkalis and solvents.
- Ideal product for marine atmospheres, high humidity and moisture.
- Exhibits superior chemical and weather resistance.
- Gives high resistance to permeability of water, moisture, oxygen and other atmospheric pollutants.
- Easy to apply.
- Eliminates the problem of chalking as it is Un-attacked by UV radiation due to the shielding action of lamellar pigment particles.
- Can be used as a primer and intermediate finish coat

- Cost-effective.

### DESCRIPTION

**VERL@C-MIO** is a two component high build easy to apply epoxy coating pigmented with micaceous iron oxide (MIO) which is a lamellar plate-like pigment that forms a thick lustrous layer after application. It is ideally suited for exterior application. When the coating dries, the thin platelet shaped pigment particles adjust themselves parallel to the substrate to give a protective effect to the film. Also, it acts as a barrier to the diffusion of oxygen and moisture through the film.

### USES

- Metal bridges.
- Pipelines.
- Storage tanks.
- Petrochemical plants.
- Power plants.
- Off-shore platforms.
- Marine installations.

<b>Pot Life @ 30°C</b>	: 6 to 8 hours
<b>Surface Dry</b>	: 1 hour
<b>Hard Dry</b>	: 8 hours
<b>Re-coat</b>	: 16-24 hours
<b>Full Cure</b>	: 7 days
<b>Induction (sweat-in-time) @ 30°C</b>	: 30 minutes
<b>Dry Heat Resistance</b>	: 175°C
<b>Relative Humidity</b>	: 85%
<b>Application Temperature</b>	
<b>Minimum</b>	: 12°C
<b>Maximum</b>	: 45°C
<b>Flash Point</b>	: 22°C
<b>Dry Film Thickness</b>	
<b>Per Coat MIO HS</b>	: 150-200 microns
<b>Solid MIO HS</b>	: 80± 3%

### APPLICATION

**Surface Preparation: For Steel Surfaces:**

**Steel must be blasted at 2.5SA –PRMED WITH VELAC ZRP 100mic before applying MIO at recommended DFT**

### TECHNICAL PROPERTIES

<b>Color</b>	: Brownish grey
<b>Type</b>	: Two pack cold cured
<b>Composition</b>	: Epoxy Resin / MIO
<b>*DFT MIO version</b>	: 100-125 microns
<b>Finish</b>	: Smooth and Matt to Eggshell
<b>*% Solids MIO version</b>	: 50 ± 3%

The surface should be free from oil, grease, dirt, scales, rust, corrosion products, oxides, paint and other foreign matter.

The surface should be pretreated with emery paper and the rust should be removed with VERL@C-RR.

**For Galvanized Iron:** Remove dirt, dust, oil, old paint etc. from the surface. Degrease the surface with FM DEGREASER.

**Mixing:** **VERL@C- MIO** is supplied in pre-weighed containers ready for mixing. Pour the contents of hardner into base can and mix thoroughly, preferably by mechanical means for at least 5 min until an even and uniform color is obtained.

**Application:** VERL@C-MIO is applied by brush or airless spray to give a continuous coating on the prepared surface. After the surface preparation is done, apply one coat of VERL@C-ZRP or ZRP HZ or EPS (Refer Separate technical datasheet for more information.) and allow it to dry for a minimum of 8 hours and maximum 24 hours. When the primer is dried fully

and intermediate coat of VERL@C-MIO shall be applied and allowed to dry for a minimum of 8 hours and maximum 24 hours. On this apply top coat of VERL@C-PU (Refer Separate technical datasheet for more information.)

**Cleaning:** The tools (Brushes and spray equipments) shall be cleaned with VERL@C-EP Thinner immediately after use.

temperature or high humidity may reduce shelf life.

### PACKING AND COVERAGE

VERL@C-MIO is supplied in QUART U.S.

GALLON U.S PAILS

Coverage: 3 to 5 m<sup>2</sup> /kg.

### SHELF LIFE & STORAGE

VERL@C-MIO will have a shelf life of **6 months** in unopened containers when kept in dry conditions at a temperature between 5°C to 45°C. Storage at higher

### HEALTH & SAFETY

It is a highly flammable product. Keep away from heat and open flame. Good ventilation must be ensured and avoid breathing vapors. Smoking must be strictly prohibited while using VERL@C-MIO.

### QUALITY ASSURANCE

HAMCO SARL manufactures entire range of construction chemicals Protective coatings ,wood coatings ,decorative paints ,water proofing systems

### TECHNICAL SERVICES

While new advances and changes will take place but one thing will never change is quality and meeting special needs of our customers. Our technical personnel & experts are available to provide additional information and technical assistance. We are eager to work with you in development of new product and resolve your problem.

The information given in this data sheet is based on both the current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept the responsibility for any work carried out with our materials as we have no control over methods of application, site conditions etc. In view of the continuing research and development being undertaken in our laboratories we advise customers in their own interest to ensure that this data sheet has not been superseded by more up-to-date publication. All products are sold subjected to our standard conditions of sale which are available on request. Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact our local HAMCO SARL – VERLAC-representative.

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