

RUST O CAP MIO

Surface tolerant epoxy coating

PRODUCT DESCRIPTION

Two component, high build, surface tolerant epoxy coating pigmented with aluminium and lamellar micaceous iron oxide

FEATURES AND RECOMMENDED USE

- High performance maintenance coating for coastal & industrial polluted environment
- Self-priming; eliminates the usage of primer
- Recommended on hand or power tool cleaned rusted steel
- Suitable for exposure to dry heat upto 150°C and corrosion protection of steel under thermal insulation
- Enhanced corrosion resistance due to combination of aluminium and MIO pigments
- Good flexibility for long term performance
- Can be applied over prepared stainless steel surface
- Good adhesion to aged and sound epoxy, polyurethane and conventional alkyds
- Can be over coated with most two component paints

TECHNICAL DATA

Colour	Aluminium
Gloss	Eggshell
Volume Solids	Approx. 80%
Recommended DFT / Coat	75 - 150 microns
Theoretical Coverage Capacity	10.6 sq.mtr/ ltr @ 75 microns DFT 5.3 sq.mtr/ ltr @ 150 microns DFT
Drying time at 30°C	Surface Dry : 6 hours Hard Dry : 9 hours Full Cure : 7 days
Over coating interval at 30°C	Min. : 9 hours Max. : 1 Month, provided surface is dry and clean from all contamination

The data given is for guideline only. The physical values are subject to normal manufacturing tolerances, colour and testing variances

The volume solids indicated are as per ASTM D 2697 air drying method.

The actual drying time/ overcoat interval may be shorter or longer, depending on film thickness, ventilation, humidity, temperature etc.

The information provided above is at 30°C and 65% relative humidity.

DIRECTIONS FOR USE

Surface Preparation

General

- Surfaces must be dry, clean and free from contaminants
- Ensure removal of dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Oil and grease should be removed as per SSPC-SP1 solvent cleaning.
- Surface should be checked and treated in accordance with ISO 8504 prior to priming

Blast Cleaning

- Steel, abrasive blast clean to min. Sa 2 1/2 (ISO 8501-1: 200) or SSPC –SP6. In case oxidation has occurred between blasting and application of Rust O Cap MIO, the surface should be reblasted.
- A blasting profile of (Rz) 50-60 microns is recommended.

A. Steel

For atmospheric exposure condition

- New hot-rolled steel; blast cleaned to min Sa 2 of Swedish specification.
- Weathered steel; power tool cleaned to St 3 or hand tool cleaned to St 2.
- Existing sound epoxy coating system and sound alkyd coatings; sufficiently roughened, dried, and cleaned.
- High pressure fresh water washing or scrubbing to remove loose paint and contamination. Intact areas to be roughened. Damaged and rusty areas to be derusted to minimum St3 /St2 by power tool / hand tool cleaning.

Application Conditions

- Substrate temperature should be at least 3°C above dew point but not above 50°C.
- Relative humidity should be below 85%
- Good ventilation is required in confined areas to ensure proper curing

Mixing

- Rust O Cap MIO is supplied in two packs. Stir the base and hardener separately. If settling is observed in the base or hardener, loosen the settled material with the help of hand stirrer followed by power driven stirrer (at lower RPM) for quick homogenous mixing.
- Mix hardener gradually into the base under continuous stirring as per the mixing ratio. Once the unit has been mixed, it should be consumed within the working pot life. In case of part mixing (which should be avoided), close the lids of containers tightly to avoid contact with atmospheric moisture.
- Thinner should be added after mixing the components and post the induction time. Addition of excessive thinner will lead to reduced sag resistance.

Mixing Ratio (by volume)	Base : Hardener 4 : 1
Induction Time	None
Pot Life at 30°C	2 hours

Application

Airless Spray	
Recommended thinner	T 131
Volume of thinner	5 - 15%
Nozzle orifice	0.53 - 0.66 mm (21 – 26 Thou)
Nozzle pressure	20-24 MPa (= approx. 200 – 240 atm; 2800 – 3400 p.s.i.)
Cleaning Thinner	T 141
Brush	
Recommended thinner	T 141
Volume of thinner	0 - 10%

Note: Air spray is generally not recommended. For touch up of small and inaccessible area air spray can be done.

Cleaning

- Do not allow the product to remain in hoses, gun or spray equipment. Clean all equipments immediately after use with Thinner T 141. It is recommended to periodically flush out spray equipment during the course of the working day. The frequency of cleaning will depend on amount sprayed, temperature and time gap.
- All surplus material and empty containers should be disposed off in accordance with appropriate regional legislation.

Special Instruction

- Surface discoloration may occur upon exposure to sunlight, elevated temperatures or chemicals. However, this does not impact anti-corrosive performance.
- Not recommended for immersion services in acids, alkalies & solvents
- A test patch is recommended over non-ferrous metals and adhesion to be checked as per ASTM D 3359 to confirm suitability.

Product Characteristics

- Maximum film build in one coat is best attained by airless spray. By brush application typical 75 microns is achieved in one coat and multiple coats will be required to achieve the total specified thickness.
- Can be applied to substrates with surface temperature upto 100°C. In these circumstances, rapid application of multiple coats is necessary to achieve correct dry film thickness
- Performance will depend on the degree of surface preparation. For good anti-corrosive performance, a minimum of 200 microns is recommended
- Full cure period must be allowed prior to subjecting coating system to service condition
- The maximum performance is achieved after complete curing.
- A minimum of two coats application is recommended over prepared steel for optimum performance.
- As common to all epoxy, the product will chalks and discolour on exterior exposure. However these phenomenon are not detrimental to anti-corrosive performance

PACK SIZE	20 ltrs (Base : 16 ltrs & Hardener : 4 ltrs)
STORAGE	Shelf Life: Atleast 12 months @ 30°C for original unopened pack, subject to inspection thereafter. Store in a cool, dry place and in accordance with local regulations
REGULATORY INFORMATION	Flash Point: Base : Not less than 24°C Hardener : Not less than 24°C VOC: Approx. 170 ± 30 gm/ltr (depending on shades) as per USA-EPA Method 24 Product Weight: Approx. 1.42 ± 0.05 kg/ ltr (depending on shades)

SAFETY INFORMATION

- As a general safety measure, inhalation of solvent vapours or paint mist and contact of liquid paint with skin & eyes, should be avoided. Forced ventilation should be provided when applying paint in confined spaces or stagnant air. Even when ventilation is provided, respiratory, skin and eye protection are always recommended when spraying paint.
- Please refer our Material Safety Data Sheet prior to using the product.

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