

APCODUR MIDCOAT MIO

Two pack, high build - MIO Epoxy Coating



PRODUCT DESCRIPTION

Two component polyamide cured and micaceous iron oxide (MIO) pigmented, high solids, high build epoxy coating.

FEATURES AND RECOMMENDED USE

- Designed as an epoxy intermediate in protective coating systems for steel and concrete structures exposed to aggressive conditions
- Excellent resistance to moisture and saline conditions
- Good resistant to water and splashes of mild chemicals
- Easy application by brush, conventional and airless spray
- Good abrasion resistance

TECHNICAL DATA

Color	Brown
Gloss	Matt
Volume Solids	Approx. 66%
Recommended DFT/ Coat	50 - 125 microns
Theoretical Covering Capacity	13.2 sq.mtr/ ltr @ 50 microns DFT 5.3 sq.mtr/ ltr @ 125 microns DFT
Drying Time at 30° C	Surface dry : 2 hours Hard dry : 12 hours Full cure : 7 days
Over coating interval at 30° C*	Min. : 12 hours Max. : 1 Month, provided surface is dry and clean from all Contaminations

The data given is for guideline only. The physical values are subject to normal manufacturing tolerances, color 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.

DIRECTION 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
- Suitable zinc rich primer, epoxy primer; dry and free from all surface contamination. In case of aged epoxy coating, the surface should be sufficiently roughened prior to painting.
- For application over weathered zinc rich primers, ensure white rust removal by thorough water scrubbing/ high pressure water cleaning.
- A mist coat / full coat application is recommended when applied over zinc rich primers.

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

- Apcodur Epoxy MIO Paint 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 too much thinner will lead to reduced sag resistance.

Mixing Ratio	: Base: Hardener
(By volume)	: 5 : 1
Induction Time	: 30 minutes
Pot life at 30°C	: 6 hours

Application

Air Spray:

Recommended thinner	: Apcodur Epoxy Thinner/Thinner T 141
Volume of thinner	: 5 - 25%
Nozzle orifice	: 1.5 – 3.0 mm
Nozzle Pressure	: 0.3 – 0.4 MPa (= approx. 3 – 4 atm; 43 – 47 p.s.i.)
Cleaning Thinner	: Apcodur Epoxy Thinner/Thinner T 141

Airless Spray:

Recommended thinner	: Apcodur Epoxy Thinner/Thinner T 141
Volume of thinner	: 5 - 10%
Nozzle orifice	: 0.48 - 0.53 mm (19 – 21 Thou)
Nozzle Pressure	: 19 MPa (= approx. 190 atm; 2800 p.s.i.)
Cleaning Thinner	: Apcodur Epoxy Thinner/Thinner T 141

Brush / Roller

Suitable for stripe coating and small areas.

Recommended thinner	: Apcodur Epoxy Thinner/Thinner T 141
Volume of thinner	: 0 - 10%

Cleaning:

- Do not allow the product to remain in hoses, gun or spray equipment. Clean all equipment 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 of in accordance with appropriate regional legislation.

Product Characteristics:

- Maximum film build in one coat is best attained by airless spray. Air spray (pressure pot) may require a multiple cross spray pattern to achieve optimum film build. By brush application 50-75 microns is achieved in one coat and multiple coats will be required to achieve the total specified thickness.
- The maximum performance is achieved after complete curing.

PACK SIZE	20 ltr (Base : 16.67 ltr & Hardener : 3.33 ltrs) 4 ltr (Base : 3.34 ltr & Hardener : .66 ltrs)
STORAGE	Shelf Life: Atleast 12 months@30°C for original unopened pack, subject to inspection thereafter. Store in a cool, dry place, shaded conditions away from sources of heat, ignition and in accordance with local regulations
REGULATORY INFORMATION	Flash point Base : Not less than 24°C Hardener : Not less than 24°C
	VOC Approx. 360 ± 30 gm/ ltr (depending on shades) as per USA- EPA Method 24
	Product Weight Approx. 1.61 ± 0.06 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.

Disclaimer:

To the best of our knowledge the information provided herein are true and accurate at the date of issuance. Since we have no control over the quality or condition of the substrate or the various factors affecting the use and application of the product, we do not accept any responsibility or liability arising out of use of the product.

The company reserves the right to modify data contained herein without prior notice. Any change in data would normally be followed by issue of a new data-sheet. The user should check with the nearest sales office of the company and confirm the validity of the information, prior to using the product.

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