

APCODUR MIO 400

Epoxy intermediate coating



PRODUCT DESCRIPTION

Two component, high build epoxy intermediate pigmented with lamellar micaceous iron oxide

FEATURES AND RECOMMENDED USE

- Intermediate coat providing excellent barrier protection in high performance coating system
- Extended over-coating interval
- Excellent resistance to moisture and saline conditions
- Good resistance to water and splashes of mild chemicals
- Good abrasion resistance

TECHNICAL DATA

Colour	Silver Grey, Light Grey & Dark Grey (Self Standard)
Gloss	Matt
Volume Solids	Approx. 65%
Recommended DFT / Coat	100 - 150 microns
Theoretical Coverage Capacity	6.5 sq.mtr/ ltr @ 100 microns DFT 4.3 sq.mtr/ ltr @ 150 microns DFT
Drying Time at 30°C	Surface Dry : 2 hours Hard Dry : 16 hours Full Cure : 7 days
Over coating interval at 30°C	Min. : 16 hours Max. : Unlimited, 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
- Suitable zinc 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 primers, ensure white rust removal by thorough water scrubbing/high pressure water cleaning. A mist coat is recommended when applied over zinc 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 MIO 400 is supplied in two packs. Stir the base and hardener separately. If settling is observed in the base, 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 5 : 1
Induction Time	30 minutes
Pot Life at 30°C	4 hours

Application

Air Spray	
Recommended 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	T 141
Airless Spray	
Recommended thinner	T 141
Volume of thinner	5 - 10%
Nozzle orifice	0.43 - 0.48 mm (17 – 19 Thou)
Nozzle pressure	17 – 20 MPa (= approx. 170 – 200 atm; 2500 – 2900 p.s.i.)
Cleaning Thinner	T 141
Brush	
Suitable for stripe coating and small areas.	
Recommended thinner	T 141
Volume of thinner	0 - 5%

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.

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 DFT can be achieved in one coat so multiple coats will be required to achieve the total specified thickness.
- Apcodur MIO 400 can be rapidly overcoated with Polyurethane finish (Apcothane CF 678) after 4 hours drying of Apcodur MIO 400 at 30°C. For rapid overcoating the intermediate and finish paint is to be applied by spray only.
- The maximum performance is achieved after complete curing.

PACK SIZE	20 ltrs (Base : 16.67 ltrs & Hardener : 3.33 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. 350 gm/ ltr (depending on shades) as per USA-EPA Method 24 Product Weight: Approx. 1.70 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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