MICACEOUS IRON OXIDE EPOXY FINISH

Micaceous Iron Oxide Polyamide Cured Epoxy MI 02

* EXTENSIVE SERVICE HISTORY IN MARINE AND CORROSIVE CONDITIONS
* EXCELLENT ABRASION RESISTANCE

USES: MIO Epoxy Finish is a two-component polyamide cured epoxy coating, which displays outstanding durability and abrasion resistance due to the presence of micaceous iron oxide in the film. Cured films resist U.V. light and moisture penetration with minimum chalking or deterioration. MIO Epoxy Finish is designed for the protection of steel structures in aggressive marine and industrial atmospheres particularly where resistance to abrasion is important. Applications include wharf super-structures, high transmission towers, ship loaders, hoppers, conveyors, silos and storage tanks & other marine structures.

RESISTANCE GUIDE:

HEAT RESISTANCE: Upto 120°C (Dry)

ALKALIES: Withstands splash and spillage of most alkali solutions when suitably top coated.

WEATHERABILITY: Withstands long-term exposure with minimum chalking.

SALTS: Resists splash & spillage of alkaline, natural and mild acidic salt solutions.

SOLVENTS: Unaffected by splash & spillage of petroleum solvents, gasoline, diesel fuel and lubricating oils.

WATER: Resists splash and spillage but not suitable for immersion.

ACIDS: Resists most common dilute mineral and organic acids when suitably top coated.

ABRASION: Displays excellent resistance to abrasion.

TOXICITY: Dry film is non-toxic.

TYPICAL PROPERTIES AND APPLICATION DATA:

CLASSIFICATION: Polyamide cured epoxy micaceous iron oxide

FINISH: Low metallic lustre

COLOUR REFERENCE: Brown, Silver Grey, Grey

COMPONENTS: Two

VOLUME SOLIDS: 55+4% varies with colour

WEIGHT SOLIDS: 74+4

S.GRAVITY: 1.55+0.05

FLASH POINT: 23°C

THINNER: Epoxy Thinner

SHELF LIFE: 06 months min

LINE/SHADE: - PART A: 580-2301
- PART B: 275-2302

MIXING RATIO: Part A:5 (by volume) Part B:1

POT LIFE: 6 Hours at 25°C 20 litre mix

WET FILM PER COAT: (175-185) Micrometers

DRY FILM PER COAT: (95-100) Micrometers

NUMBER OF COATS: Two

DRYING TIME AT 25°C AND 50% HUMIDITY

TOUCH: 2 hours

HANDLE: 16 hours

RECOAT: 16 hours 48 hours

SUITABLE SUBSTRATES: Suitably primed steel.

PRIMERS: Hi-Build Epoxy Zinc Phosphate Primer

APPLICATION METHODS: Brush, Air or Airless Spray.

CURE TIME (25°C): 7 days at 25°C

A spreading rate of 5.50 m²/litre corresponds to 100 micrometers dry film thickness assuming no losses on a non-porous and non-absorbent surface. Practical spreading rates will vary depending on such factors as methods, conditions of application and surface roughness.

PDS-E100
INDUSTRIAL PAINTS

MIO EPOXY FINISH

TYPICAL APPLICATION SPECIFICATIONS:

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<td>STEEL</td>
<td>Abrasive blast clean to Sa 2.5</td>
<td>1ST COAT: Hi-Build Epoxy Zinc Phosphate Primer</td>
<td>75 Micrometers</td>
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<td></td>
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<td>2ND COAT: MIO-Epoxy Finish</td>
<td>100 Micrometers</td>
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<td>3RD COAT: Polyurethane Finish (Optional)</td>
<td>50 Micrometers</td>
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SURFACE PREPARATION:
MIO Epoxy is designed for application to previously primed surfaces, typically over organic or inorganic zinc rich primers. Remove oil or grease contamination from the surface by solvent wiping. Acid or alkali contamination should be removed by rinsing thoroughly with clean water. Remove all dust by brushing or vacuum cleaning.

APPLICATION:
Stir base thoroughly before adding hardener. Add hardener to base in the ratio supplied and mix thoroughly. Allow to digest for 20 minutes before use.

ROLLER/BRUSH:
Not recommended for large area. Apply even, heavy coats to the recommended film build.

CONVENTIONAL SPRAY:
Thin 15% with Epoxy Thinner immediately after mixing the hardener and base mixing.

TYPICAL SET-UP
De Vilbiss JGA 502 Gun: 704 Air Cap, E Fluid Tip, E Needle
Iwata W70 Gun: 21 Air Cap, 21 Fluid nozzle, 21 Fluid Nozzle
Pressure at Pot: 10-15 p.s.i.
Pressure at Gun: 60-70 p.s.i.

AIRLESS SPRAY:
Preferred application method. Standard equipment such as Graco, Hermex, Binks or others using a 30:1 pump ratio, an airless tip of 375-450 micrometers (0.015-0.018”) and an air supply of 80-100 p.s.i. Thin if necessary. Use a manifold filter size 60 mesh.

OTHERS:
Do not add fresh material to material which has been in use for some time. Do not apply MIO Epoxy Finish if the temperature is below 10°C or likely to fall below 10°C during the cure period. Do not apply at relative humidities above 85% or within 3°C of dew point.

CLEAN UP:
Clean up all equipment with Epoxy Thinner immediately after use.

RECOATING AGED MIO EPOXY FINISH:
Clean using high-pressure water wash. Allow drying. Apply further coating to specified film thickness. Recommended film build.

SAFETY PRECAUTIONS:
MIO Epoxy is a solvent borne epoxy polyamide coating incorporating micaceous iron oxide and various other additives. Some colour contains aluminium flakes.

BEFORE USE:
Read "instructions for use" and any precautionary labels on containers.

STORAGE:
Store as required for a flammable liquid in a bounded area under cover. Store in well ventilated area away from sources of heat or keep containers closed at all times.

HANDLING:
As with any chemical, ingestion, inhalation, and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection should be worn where there is a risk of splashes entering the eyes.

USING:
Use with good ventilation and avoid inhalation of vapour and spray mist. If risk of inhalation of spray mist exists, wear combined organic vapour respirator. When spray painting, users should comply with the provisions of the respective State Spray Painting Regulations.

FLAMMABILITY:
MIO Epoxy Finish is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO₂, dry chemical powder. On burning will emit toxic fumes.

WELDING:
Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.

EMERGENCY TREATMENT:
EYES: Irrigate with copious quantities of water for fifteen minutes. Seek medical assistance if effect persists.

SKIN: Remove paint using proprietary industrial skin cleanser. Wash skin thoroughly with soap and water. Remove contaminated clothing and wash before re-use. If irritation occurs seek medical advice.

INHALATION: Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist.

INGESTION: Give water to drink. DO NOT induce vomiting. Seek immediate medical assistance.

PACKING:
Available in 6 litres pack (Part A 5L+Part B 1L)

All information in this sheet is as accurate and up-to-date as possible. Products can be expected to perform as indicated in this Sheet, so long as applications and application procedures are as recommended. However there are no expressed or implied warranties other than those implied mandatory by State.