



TECHNICAL DATA SHEET

[METAL-LUX MIO]

Alkyd MIO Coating

PRODUCT DESCRIPTION

A single component alkyd solvent based coating containing micaceous iron oxide pigments for enhanced anti-corrosion properties and extended recoating intervals.

- ▶ Excellent corrosion protection.
- ▶ High film build.

DESIGN USE

☉ As an alkyd based intermediate or finishing coat for steel surfaces. Suitable for both interior and exterior exposure in mild environments and areas with limited chemical exposure.

PHYSICAL DATA

VOLUME SOLIDS 50 ± 2%

DRY FILM THICKNESS (DFT) 43 µm / Coat

WET FILM THICKNESS (WFT) 86 µm / Coat

NUMBER OF COATS 2

THEORETICAL COVERAGE 11.63 m²/L/coat

FINISH Matt

COLOUR RANGE Silver Grey, Dark Grey

NO. OF COMPONENTS 1

STANDARD PACKING SIZE 5L, 20L

RECOMMENDED PAINTING SYSTEM

Substrate: Steel

System	Product	No. of Coats
Primer	Recommended KCC alkyd primer	1
Intermediate	Metal-Lux MIO or other recommended KCC alkyd intermediate coat	1
Finish	Metal-Lux MIO or other recommended KCC alkyd intermediate coat	1
Repair Coat	Touch up using Metal-Lux MIO	1

APPLICATION METHOD

Brush, Roller, Spray or Airless Spray

* Brush and Roller recommended for stripe coating and small areas only.

* Airless Spray Recommended Tip Size: 0.43 - 0.54 mm (17 - 21 thou).

* Airless Spray Recommended Pressure: 110 - 150 kg/cm² (1600 - 2100 psi).

DRYING TIME

Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval	
			Minimum	Maximum
15°C	4hr	8hr	8hr	-
25°C	3hr	6hr	6hr	-
35°C	2hr	4hr	4hr	-

*The properties above may vary with surface temperature, site environment, film thickness, etc.

ADDITIONAL INFORMATION

Thinner Thinner 51

Thinning Ratio Do not exceed 5% dilution ratio.

Cleaning Solvent Thinner 51

Flash Point 35°C (when mixed)

Storage Requirements Cool, dry and well ventilated area away from heat and direct sunlight(5~35°C). Lid must be kept tightly closed.



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SURFACE PREPARATION

- ◆ All surface to be coated should be clean, dry and free from contamination as in accordance to ISO 8504.
- ◆ Oil and grease must be removed by solvent cleaning as in accordance to SSPC - SP1.
- ◆ Metal-Lux MIO should always be applied over a recommended anti-corrosive coated surface.
- ◆ The coated surface should be clean, dry and free from all contamination.
- ◆ Metal-Lux MIO must be applied within the recommended overcoating intervals of the preceding coat.

Pre - application conditions

- ◆ The surface temperature should be 3°C above the dew point and should not exceed 50°C.
- ◆ The relative humidity should be between 60% and 85%.
- ◆ Paint application shall not commence when there is a likelihood of an unfavourable change in weather condition within 2 hours after painting.

REMARK

- ☞ Always conduct an application point test on small area. Check for any abnormalities and paint defects prior to painting.
- ☞ This product should only be applied over concrete, plaster and masonry substrate that have been suitably sealed and primed.
- ☞ Avoid excessive thinning as it will result in colour difference, poor hiding power, poor finishing, and overall paint performance compromised.
- ☞ Always follow TDS recommended coating thickness and ensure uniform application thickness. Inconsistent film thickness will result in difference sheen level and unpleasant finishing.
- ☞ It is recommended to paint the same colour with same batch number, using same painting equipment and method and also follow instructed thinning ratio to ensure consistent painted finishing.
- ☞ Recommended to paint according to TDS and Application guide.

(Please consult with KCC customer service for any inquiries or browse to our website www.kccpaint.com.my)

PRODUCT LIMITATIONS

- ◆ Metal-Lux MIO is not recommended for continuous immersion and is not suitable for exposure to acidic and alkaline environments.
- ◆ Excessive thickness or over applications of Metal-Lux MIO can lead to improper curing of paint film which will require complete removal of the affected areas via abrasive blasting.
- ◆ Maximum film build in a single coat is best achieved by airless spray.
- ◆ For brush and roller applications, multiple coats will be required to achieve the required DFT.
- ◆ Volume solids values stated are for guidance purposes only and may be subject to variation depending on factors such as colour and manufacturing tolerances.
- ◆ Due to the nature of alkyd paints, Metal-Lux MIO may yellow when left in dark environments for prolonged periods of time. However, this is only a cosmetic effect and does not affect the performance of the product.

SAFETY PRECAUTIONS

- ◆ This product is flammable and must be kept away from any source of ignition.
- ◆ Use under well ventilated conditions.
- ◆ Do not breathe or inhale mist.
- ◆ Avoid skin contact.
- ◆ Keep out of reach of children.

FIRST AID

- | | |
|-------------------|--|
| Eyes | Eyes should be well flushed with water and medical attention sought immediately. |
| Skin | Spillage on the skin should immediately be removed with suitable cleanser, soap and water. |
| Inhalation | Remove to fresh air, loosen collar and keep patient rested. |
| Ingestion | DO NOT INDUCE VOMITING. Obtain medical attention. |

DISCLAIMER

The above information is given to the best of our knowledge based on laboratory testing and practical experiences. The information in this data sheet may be subject to changes from time to time and without notice due to production refinements arising from continuing research and evaluation programmes, which may occasionally result in marginal changes in the coating properties.