

Technical Data Sheet



Metal-Lux 101

Alkyd Gloss Finish

Product Description

Metal-Lux 101 is a single pack alkyd solvent based finish. It forms a high gloss finish with good opacity and weathering resistance.

Recommended Use

High gloss finishing topcoat over alkyd based primer or intermediate coats. It is recommended for mild environments and areas with limited chemical exposure

Product Information

Binder	: Alkyd
No. of Components	: 1
Solids (% by Volume)	: 50 ± 2 %
Flash Point	: 35°C (when mixed)
Colour	: Standard Color Range
Finish	: High Gloss

Application Information

Substrate	: Steel
Recommended No. of Coats	: 2
Recommended Wet Film Thickness	: 60 to 100 µm / Coat
Recommended Dry Film Thickness	: 30 to 50 µm / Coat
Theoretical Spreading Rate	: 10 to 17 m ² / L / Coat
Specific Gravity	: Approx. 0.95 - 1.16, depending on color

Application Methods

Applied By : Brush / Roller / Spray / 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)

Thinner : Thinner 51 (5% maximum addition)

Clean Up : Cleaner 12

Packaging & Storage

Packaging : 5.0 Litres

20.0 Litres

Shelf Life : 12 months - Unopened

Storage : Cool, dry and well ventilated area away from heat and direct sun light. Lid must be kept tightly closed.

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.

Curing Time				
Substrate Temperature	Touch Dry	Hard Dry	Overcoating Interval	
			Minimum	Maximum
15 °C	8 hours	24 hours	24 hours	7 days
25 °C	5 hours	12 hours	16 hours	7 days
35 °C	3 hours	6 hours	8 hours	7 days

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

Typical Painting System		
System	Product	No. of Coats
Primer	Recommended KCC alkyd primer	1
Intermediate	Metal-Lux 101 or other recommended KCC alkyd intermediate coat	1
Finish	Metal-Lux 101	1
Repair Coat	Touch up using Metal-Lux 101	1

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 101 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 101 must be applied within the recommended overcoating intervals of the preceding coat.

Preapplication Conditions

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

Product Limitations

Metal-Lux 101 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 101 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 101 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 Precaution

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. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately. Keep out of reach of children.

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.