

CODE: AL-103

PRODUCT NAME:

Alkyd Red Oxide & zinc oxide Primer

DESCRIPTION:

AL-104 is a single pack Alkyd Red Oxide & zinc oxide Primer Containing red oxide & zinc oxide anti-corrosive pigment with good abrasion resistance specifically designed for the blast steel structures in Semi-Industrial environments above water where drying, rapid handling fast and rapid over coating properties are required.

It can be overcoated with Alkyds. As with alkyd systems, AL-103 has limited chemical and solvent resistance and is not suitable for use in immersion situations or in conditions of continuous condensation.

TECHNICAL DATA:

Binder	Alkyd resin
Pigment	Red oxide & zinc oxide
Finish	Flat
Shade	Red brown
Specific Gravity	1.6 ± 0.1 kg/lit
Volume solid	55 ± 3 %
Flash point	34 °C
Typical dry film thickness (per one coat)	40-80 Microns
Number of coat	One
Substrate	Cleaned or Blasted steel
Application method	Conventional or air less spray , brush , roller
Thinner / Cleaner	T-100
Weight of added thinner	Max 15-20%
Theoretical spreading rate - one coat (at 40 microns)	13.75 M ² /Lit
Packing	5 kg or 25 kg
Shelf life	12 Months

Drying Time

Temp	Touch dry	Hard dry	Over coating	
			Min	Max
15°C	60 minutes	12 hours	10 hours	-
25°C	40 minutes	10 hours	8 hours	-
40°C	20 minutes	7 hours	5 hours	-

Note 2: Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

SURFACE PREPARATION:

Apply the Paint only clean and dry surfaces. Remove all grease, oil, soluble contaminants and other detrimental foreign matter by "solvent cleaning" (SSPC-SP1).

Steel:

For optimum performance "Near White Blast Cleaning" Sa2 ½ (ISO 8501-1:1988) or SSPC-SP10 is recommended. "Commercial Blast Cleaning" (SSPC-SP6) is acceptable in many areas.

Previously painted surfaces:

Remove all mill scale, loose rust, loose paint and other detrimental foreign matter by "Hand or Power Tool Cleaning" (SSPC-SP2 or SP3, respectively).

Apply one or more spot coats of AL-103, as specified.

-Surface preparation shall not take place in the following conditions:

- A) At temperature below 5 °C.
- B) When above the dew point the relative humidity greater than 85%.
- C) When the metal surface temperature is less than 3 °C above the dew point.
- D) Outside day light hours on exterior locations.

- Apply AL-103 as soon as possible after surface preparation to prevent rusting.

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Application Method:

This material is a one component coating and should always be mixed thoroughly with a power agitator before application. Stir during application to maintain uniformity of material.

Application Equipments

Airless Spray	Tip range 0.018-0.021 inch Total output pressure at spray tip not less than 141 Bar (2000 psi)
Air spray	Nozzle orifice: 1.8-2 mm Nozzle pressure: 3-5 Bar (43-72 psi)
Brush	Typically 50 mic can be achieved.
Roller	Typically 50 mic can be achieved.

Flush Equipment with recommended Cleaner before and after use.

ENVIRONMENTAL CONDITIONS:

- For satisfactory cure, air and surface temperature must be above 10 °C.
- To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.
- Never apply coatings under reverse environmental condition.
- Paint shall not be applied when wind speed is in excess of 7 m/s.

Air temperature	10 to 40 °C
Surface temperature	10 to 50 °C
Material temperature	15 to 40 °C
Relative humidity	Max 80 %

Health and Safety:

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.