



Oil-Red Oxide™ MM-100

Int/Ext Polyurethane Metal Primer

Description:

Oil-Red Oxide™ is an alkyd resin and modified polyurethane red metal primer. This high-build corrosion resistant primer contains rust-inhibitive pigments to perform a better protection against rust and adheres tightly to clean metal and existing top coats.

Meets Requirements for:

MPI:	N/A
Green Performance1:	N/A
Green Performance 2:	N/A
VOC Compliant (<500g/L):	No
SCAQMD:	N/A
AIM & OTC:	N/A

Product Advantages:

- Excellent anchoring to the surface
- Excellent protection against corrosion
- Excellent coverage
- For direct use on metal or existing top coats
- Heavy metal and lead free
- Impact and abrasion resistant
- Ready to spray

Uses:

Oil-Red Oxide™ is widely used as production and shop coat primer for use on iron and steel surfaces such as window frames and casings, railings, fences, machinery and equipment for industrial, institutional, residential and farm applications. To protect against wind, rain, sunlight, high humidity, and mild acidic industrial fumes or splash. Excellent primer for alkyd, oil, epoxy ester, urethanes or water based latex type finishes; also ideal on well cleaned structural steel, metal trim, pipes, sashes and others.

Technical Data:

Product Type:	Alkyd Resin
Finish:	Flat (1° - 3°) *Geometry 60°
Solids (%):	69 ± 2% by weight 44 ± 2% by volume
Weight/Gallon:	10.86 ± 0.05 lbs. (4.9 ± 0.02 kg.)
Colors:	Red Oxide
Drying Time:	To touch: 25 - 30 min. To recoat: 2 - 6 hrs.
Coverage:	Theoretical: Up to 710 ft. ² per gallon @ 1 mil Recommended: 500-550 ft. ² /gal. (46-51 m ² /gal.) @ 1.4 dry mils, 3.2 wet mils
Sizes:	55 gallons 5 gallons 1 gallon 1 quart
Thinning:	Is not recommended.
Flash Point:	130 °F TOC
Viscosity:	80 - 90 KU
Percent Pigment by Weight:	45 ± 2%
VOC:	<500 g/L

Notice: The technical data contained herein are true and accurate to the best of our knowledge. Published technical data and instructions are subject to change without prior notice.

F.D.S.: Available upon request.

Surface Preparation:

All surfaces must be dry, clean, sound and free of contaminants. Remove all dirt, grease, chalk, mildew, oil, rust, concrete curing agents, dust, and other soluble contaminants from steel surfaces by washing with solvent, vapor, cleaning compound. Remove all loose mill scale, loose rust, loose paint, and other loose detrimental foreign matter by hand chipping, scraping, sanding, and wire brushing or by power wire brushing, power sanding, power grinding, power tool chipping, and power tool descaling. Glossy surfaces should be lightly sanded and primed previous to new paint application.

Recommended Paint Systems:**Iron and steel surfaces:**

Surface preparation: SSPC-SP1/ SP2 / SP3
Primer, apply 1 coat : Oil-Red Oxide™ Primer
500-550 ft.²/gal. (46-51 m²/gal.)
@1.4 dry mils, 3.2 wet mils
Apply two coats if additional thickness is required.

Previously painted surface:

Surface preparation: SSPC-SP2 / SP3
Primer, apply 1 coat : Oil-Red Oxide™ Primer
500-550 ft.²/gal./gal. (46-51 m²/gal.)
@1.4 dry mils, 3.2 wet mils
Apply two coats if additional thickness is required.

Surface Preparation Standards:

SSPC-SP1 Solvent cleaning: Removal of all visible oil, grease, soil, drawing and cutting compounds, and other soluble contaminants from steel surfaces with solvent Lanco® Lacquer Thinner LT-102, vapor cleaning, alkali, emulsifying agent, or steam.

SSPC-SP2 Hand tool cleaning: Removes all loose mill scale, loose rust, loose paint, and other loose foreign matter by hand chipping, scraping, sanding, and wire brushing.

SSPC-SP3 Power tool cleaning: Removes all loose mill scale, loose rust, loose paint, and other loose detrimental foreign matter by power wire brushing, power sanding, power grinding, power tool chipping, and power tool descaling.

SSPC-SP6 / NACE 3 Commercial blast cleaning: Commercial blast cleaning is a method of preparing metal surfaces for coating by the use of abrasives propelled through nozzles or by centrifugal wheels. It requires the removal of all visible scale, rust and other surface contaminants. Generally light shadows, streaks and discoloration caused by stains of rust, stains of mill scale and stain of previously applied paint may remain on no more than 33% of the surface. Slight residues of rust and paint may also be left in the craters or pits if the original surface is pitted.

SSPC-SP7 Brush-off blast cleaning: The surface shall be free of all visible oil, grease, dirt, dust, loose mill scale, loose rust, and loose coating. Tightly adherent mill scale, rust, and coating may remain on the surface. Mill scale, rust, and coating are considered tightly adherent if they cannot be removed by lifting with a dull putty knife.

Surface Application Recommendations:

Previously painted surfaces: Clean surface of all loose, peeling paint and foreign material; spot prime bare metal areas. If the paint is old, peeling or badly weathered, hand tool clean (SSPC-SP2) or power tool clean (SSPC-SP3). Glossy or smooth surfaces should be sanded. If poor adhesion of existing coatings is noted or coating is loosed by blistering, rupture or scratching, additional abrasion or removal methods to provide a clean and sound surface.

New iron and steel metals: Clean surface of all loose rust, grease, oil, and foreign material; spot prime bare metal. If the paint is old, peeling or badly weathered, hand tool clean (SSPC-SP2) or power tool clean (SSPC-SP3).

Method of Application:

Shake well before using. Do not apply when the surface or ambient temperature is below 50°F (10°C) or if rain is expected within 5 hours. Apply the product by brush, roller, or sprayer. Apply generously with a brush or roller, avoiding excess or overspreading. Typical standard practice recommends intermixing when working with more than one container of the same color to ensure color consistency.

Mixing and Thinning: Mix always thoroughly before application. Thinning is not recommended, if necessary use only 8oz. of Lanco® Mineral Spirits MS-107 per gallon.

Brush: Use a 3/8" solvent resistant PA-1982 or polyester brush PA-1999.

Roller: Use a Lanco® All-Purpose 1/4" or 3/8" Enamel Roller PA-565 or PA-566. Apply generously, but avoid excessive brushing or reworking of painted areas, do not apply or spread too thinly.

Spray: The equipment must be capable of maintaining a pressure of 700-1000 psi with a tip of 0.015 to 0.019. Spray and reapply on rough or porous surfaces to achieve required film formation. Apply two layers, it is recommended to dry one night between layers to minimize pinholes. See equipment manufacturer's recommendations.

Conventional Spray: For suction feed, use a DeVilbiss MBC gun with an "E" tip and needle and 30 air cap or equivalent, at 40-45 psi atomizing pressure. For pressure feed, use a DeVilbiss MBC gun with an "E" tip and needle and 704 air cap or equivalent at 40-45 psi and 5-8 fluid pressure, 3/8" ID material hose, double-regulated pressure tank with oil and moisture separator. Apply two coats with overnight drying between coats to minimize pinholes on the surface is recommended. See equipment's manufacturer recommendation.

Airless Spray: Minimum of 28:1 ratio pump, with a 0.013"- 0.015" tip, 1/4" ID Teflon material hose. Apply two coats with overnight drying between coats to minimize pinholes on the surface is recommended. See equipment's manufacturer recommendation.

Precaution: Do not apply when air or surface temperature is below 50 °F (10 °C). Apply liberally, but do not overspread. Stop painting at least two hours before you expect dew to form or the temperature to fall below 50 °F (10 °C).

Important: It is important that you apply one coat of primer and two full coats of paint to achieve the warranty protection.

Limited warranty: The manufacturers liability in connection with the sale of this product extends only to the replacement price if it should fail to comply with quality standards or specifications.

Safety precautions: Refer to F.D.S. sheet before use.

Warning!: If you scrape, sand, or remove old paint, you may release lead dust. Lead is toxic. Wear a NIOSH-approved respirator to control lead exposure. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead. For chemical emergency call ChemTrec 1-800-424-9300. Protect from freezing.