



Technical Data Sheet for Red Oxide Primer

Product Description

Red Oxide Primer is a high-quality, anti-corrosive primer formulated with red oxide pigments and a durable resin base. This solvent-based primer provides exceptional adhesion and long-lasting protection for metal surfaces, shielding them from rust and environmental degradation. It penetrates and seals the substrate, creating a strong bond that enhances the performance and durability of subsequent topcoats.

The red oxide pigment offers superior coverage and visibility during application, ensuring consistent results. Its fast-drying formula allows for efficient application, reducing project timelines. Red Oxide Primer is designed for industrial, automotive, and structural metal applications, where robust corrosion resistance and durability are essential.

With excellent weather resistance, this primer performs well in both indoor and outdoor environments, even under harsh conditions. Its compatibility with various topcoats, including alkyd, acrylic, and polyurethane systems, makes it a versatile solution for diverse projects.

Recommended Use

Red Oxide Primer is suitable for a wide range of applications, including:

- Metal Surfaces:**
 - Protects ferrous metals from rust and corrosion.
 - Ideal for structural steel, pipes, tanks, and machinery.
- Industrial Applications:**
 - Ensures durable protection in manufacturing plants, warehouses, and heavy machinery.
 - Suitable for surfaces exposed to oils, chemicals, and abrasives.
- Automotive Use:**
 - Acts as a base layer for vehicle panels and parts, preventing rust formation and ensuring a smooth finish for topcoats.
- Construction and Infrastructure:**
 - Used on bridges, cranes, and other exposed steel structures to provide long-lasting protection.
- Outdoor Metalwork:**
 - Protects gates, fences, railings, and other exterior metal surfaces from weathering.
- Marine Environments:**
 - Suitable for shipbuilding and marine equipment exposed to saltwater and humidity when paired with additional protective coatings.

Technical Data

- Basis:** Solvent-based alkyd resin with red oxide pigments
- Appearance:** Smooth, opaque reddish-brown liquid
- Specific Gravity:** $1.4 \pm 0.05 \text{ g/cm}^3$
- pH:** Not applicable (solvent-based product)
- Dosage:** 8–10 m²/L per coat, depending on surface porosity and texture
- Addition:** Ready to use; thinning with mineral spirits or turpentine oil up to 10% is optional for spray applications.
- Method of Application:**
 - Brush:** Ideal for small areas or detailed work, ensuring proper coverage.
 - Roller:** Suitable for large, flat surfaces, providing an even coat.



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- **Spray Gun:** Recommended for professional applications, ensuring smooth and uniform coverage.

Application Steps:

1. Clean the metal surface thoroughly, removing dust, grease, rust, and loose paint.
2. Sand the surface lightly to enhance adhesion.
3. Stir the primer thoroughly to ensure consistency.
4. Apply one or two coats as necessary, allowing 6–8 hours of drying time between coats.
5. Allow the primer to cure for 24 hours before applying the topcoat.

Safety Instructions

- **Personal Protection:**
 - Use gloves, goggles, and a respirator during application to avoid skin, eye, and respiratory irritation.
 - Wear protective clothing to prevent skin contact.
- **Ventilation:**
 - Ensure adequate ventilation during and after application, particularly in enclosed spaces, to avoid inhalation of harmful fumes.
- **Fire Hazards:**
 - Red Oxide Primer is flammable. Keep away from heat, open flames, and sparks. Avoid smoking in the application area.
- **First Aid Measures:**
 - **Skin Contact:** Wash with soap and water. Seek medical attention if irritation persists.
 - **Eye Contact:** Rinse immediately with clean water for at least 15 minutes. Seek medical help if symptoms continue.
 - **Inhalation:** Move to fresh air immediately. If dizziness or nausea occurs, seek medical attention.
 - **Ingestion:** Do not induce vomiting. Seek immediate medical assistance.
- **Storage:**
 - Store in a cool, dry, and well-ventilated area, away from direct sunlight and ignition sources. Keep containers tightly closed.
- **Disposal:**

Dispose of unused primer and empty containers according to local regulations. Do not release into drains or water systems.

By adhering to these guidelines, Red Oxide Primer ensures optimal protection and performance, making it a trusted choice for metal protection in diverse applications.