

Technical Data Sheet

HR OXIDE

Red Oxide Primer



Product Description

HR OXIDE is a high-quality red oxide primer designed to provide superior adhesion and corrosion protection for metal surfaces. It forms a durable base coat for subsequent finishing paints and is ideal for structural steel, iron, and metal fabrication. Its excellent rust-inhibiting properties make it suitable for both indoor and outdoor applications.

Features & Benefits

- Excellent Corrosion Resistance: Protects ferrous metals from rust and oxidation.
- Superior Adhesion: Ensures strong bonding with topcoats.
- Smooth Application: Easy to apply by brush, roller, or spray.
- Fast Drying: Reduces downtime between coats.
- Durable Film: Withstands normal wear and environmental exposure.
- Versatile Use: Suitable for structural steel, gates, machinery, pipelines, and equipment.

Recommended Uses

- Structural steel, metal frameworks, and iron surfaces.
- Industrial equipment and machinery.
- Gates, fences, pipelines, and storage tanks.
- As a base primer before application of synthetic or acrylic topcoats.



Technical Properties

Property	Typical Value
Composition	Red iron oxide pigment in synthetic resin base
Colour	Red oxide
Finish	Matt
Density	1.2 – 1.4 kg/L (approx.)
Solids by Volume	35–40%
Viscosity	80–100 KU (approx.)
pH	Not applicable
Theoretical Coverage	10–12 m ² /L per coat (depends on surface)
Recommended Number of Coats	1–2 coats



Touch Dry Time	30–60 minutes
Recoat Interval	4–6 hours
Dry Film Thickness (per coat)	20–25 μm
Shelf Life	12 months (unopened, cool dry place)

Surface Preparation

- New Metal Surfaces: Remove rust, scale, grease, dust, and other contaminants.
- Previously Painted Surfaces: Remove loose or flaking paint, clean, and sand for better adhesion.
- Ideal Surface Condition: Dry, clean, and free from oil or oxidation.

Application Instructions

Thinning:

- Ready to use. If required, thin with recommended solvent (white spirit) up to 5–10% for spray application.

Methods:

- Brush, Roller, Airless Spray.

Environmental & Substrate Conditions:

- Apply in temperature range 10°C – 40°C.
- Avoid application during rain or high humidity conditions.

Safety Precautions:

- Ensure good ventilation.
- Avoid inhalation of fumes.
- Wear protective gloves and eyewear.



Drying Times

Stage	Time
Surface Dry	30–60 minutes
Hard Dry	4–6 hours
Recoat Interval	4–6 hours

Safety & Handling

- Flammable – keep away from sparks and open flames.
- Avoid contact with skin and eyes.
- In case of ingestion, seek immediate medical advice.
- Dispose of empty containers and excess material according to local regulations.

Warranty & Disclaimer

This TDS is based on manufacturer's knowledge and laboratory tests. Performance may vary due to application, surface condition, or environmental factors. Always conduct a test patch before full-scale application.

