



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.



Technical Data Sheet for Self-Etching Primer

Product Description

Self-Etching Primer is a high-performance primer specifically formulated to promote superior adhesion on bare metal surfaces. It combines a unique blend of acid-based components and resins to etch the surface chemically while providing a durable base coat. This dual-action primer not only adheres strongly to metal but also offers excellent corrosion resistance, making it an essential preparatory coating for professional and industrial applications.

This primer is ideal for hard-to-paint surfaces such as aluminum, galvanized steel, and stainless steel. Its formulation penetrates the substrate, creating a micro-etched surface that locks in the coating and ensures long-lasting performance. Self-Etching Primer is fast-drying, sandable, and compatible with various topcoat systems, including enamel, acrylic, and urethane paints.

Its versatility extends to automotive refinishing, construction projects, and industrial maintenance, where it acts as a reliable foundation for finishing coats. The product's anti-corrosive properties and compatibility with high-performance coatings make it suitable for use in harsh environments and outdoor applications.

Recommended Use

Self-Etching Primer is ideal for various applications where metal surfaces require strong adhesion and corrosion protection:

- Automotive Applications:**
 - Prepares car panels, frames, and parts for refinishing or restoration projects.
 - Promotes adhesion and protects against rust in high-stress automotive environments.
- Industrial Use:**
 - Suitable for machinery, pipelines, and equipment exposed to chemicals, moisture, and temperature fluctuations.
 - Provides a robust base for long-lasting topcoats in manufacturing and maintenance projects.
- Construction and Infrastructure:**
 - Prepares and protects steel structures, bridges, and frames from rust and environmental damage.
 - Acts as a reliable primer for repainting galvanized or stainless-steel elements.
- Marine Applications:**
 - Essential for shipbuilding, dock construction, and other marine equipment exposed to saltwater and high humidity.
- DIY and Home Projects:**
 - Ensures adhesion and protection for metal furniture, fences, railings, and home repair tasks.

Proper surface preparation is key, including degreasing and rust removal, to ensure optimal adhesion and performance.

Technical Data

- Basis:** Solvent-based acid etching compound with resin binders
- Appearance:** Smooth, matte green or gray liquid
- Specific Gravity:** $1.3 \pm 0.05 \text{ g/cm}^3$
- pH:** Not applicable (solvent-based product)
- Dosage:** 8–12 m²/L per coat, depending on surface texture and porosity



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- **Addition:** Ready to use; thinning with an appropriate solvent (up to 10%) is optional for spray applications.
- **Method of Application:**
 - **Brush:** Best for small areas or detailed sections, ensuring precise coverage.
 - **Roller:** Suitable for flat or slightly curved surfaces, providing uniform application.
 - **Spray Gun:** Recommended for professional and large-scale projects to achieve a smooth, even finish.

Application Steps:

1. **Surface Preparation:** Clean the metal surface thoroughly to remove grease, oil, rust, and dirt. Sand lightly to remove surface imperfections.
2. **Mixing:** Shake or stir the primer thoroughly before application to ensure uniformity.
3. **Application:** Apply one thin coat of primer evenly across the surface. Avoid excessive thickness to prevent sagging or uneven drying.
4. **Drying:** Allow the primer to dry for 15–30 minutes before applying a second coat if needed.
5. **Topcoat Application:** Ensure the primer has cured (2–3 hours) before applying the topcoat.

Safety Instructions

- **Personal Protection:**
 - Wear gloves, safety goggles, and a respirator to prevent skin, eye, and respiratory irritation.
 - Use protective clothing to avoid direct contact with the primer.
- **Ventilation:**
 - Ensure adequate ventilation during application, especially in enclosed spaces, to minimize inhalation of fumes.
- **Fire and Explosion Hazards:**
 - This product is flammable. Keep away from heat, sparks, and open flames. Use only in non-smoking areas.
- **First Aid Measures:**
 - **Skin Contact:** Wash with soap and water. Seek medical attention if irritation occurs.
 - **Eye Contact:** Flush with clean water for at least 15 minutes. If irritation persists, consult a doctor.
 - **Inhalation:** Move to fresh air immediately. Seek medical help if dizziness or difficulty breathing occurs.
 - **Ingestion:** Do not induce vomiting. Consult a physician immediately.
- **Storage:**
 - Store in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and ignition points. Keep the container tightly sealed.
- **Disposal:**

Dispose of unused primer and empty containers in accordance with local regulations. Avoid releasing into drains or waterways.

By following these guidelines, Self-Etching Primer ensures reliable performance and long-lasting protection for metal substrates in diverse applications.