



Technical Data Sheet for Zinc Chromate Primer

Product Description

Zinc Chromate Primer is a high-performance, corrosion-resistant primer specifically designed to protect metal surfaces against rust and environmental degradation. Formulated with zinc chromate pigments, this solvent-based primer provides exceptional adhesion, durability, and a robust protective barrier against moisture and oxidation. Its anti-corrosive properties make it a preferred choice for ferrous and non-ferrous metal substrates.

This primer creates a smooth and uniform surface, ensuring optimal adhesion for subsequent topcoats while extending the lifespan of the coated system. With excellent flexibility and compatibility, Zinc Chromate Primer prevents chipping, cracking, and peeling under challenging environmental conditions.

Ideal for industrial, marine, automotive, and construction applications, it withstands harsh weather, UV exposure, and chemical contaminants. Zinc Chromate Primer is quick-drying and sandable, facilitating efficient application and time savings without compromising its protective qualities.

Recommended Use

Zinc Chromate Primer is recommended for various applications where superior corrosion protection is required:

- Metal Surfaces:**
 - Suitable for steel, aluminum, and galvanized metals.
 - Provides long-lasting rust protection for structural steelwork, pipelines, tanks, and machinery.
- Marine Applications:**
 - Ideal for shipbuilding, offshore platforms, and marine equipment.
 - Offers resistance to salt spray and marine environmental conditions.
- Automotive Industry:**
 - Protects automotive parts and panels during manufacturing or refinishing processes.
 - Enhances adhesion for subsequent paint layers.
- Industrial and Construction Projects:**
 - Ensures durability and resistance to corrosion in factories, warehouses, and heavy equipment.
 - Suitable for use in bridges, cranes, and metal frameworks exposed to harsh conditions.
- Outdoor Environments:**
 - Shields outdoor metal structures, including fences, gates, and storage tanks, from weather-induced deterioration.
- Compatibility:**
 - Serves as a foundation for oil-based, alkyd, and epoxy topcoats, ensuring uniform and durable finishes.

Proper surface preparation, including degreasing and rust removal, is essential for optimal results.

Technical Data

- **Basis:** Zinc chromate pigment with a solvent-based binder
- **Appearance:** Smooth yellow or greenish liquid
- **Specific Gravity:** $1.5 \pm 0.05 \text{ g/cm}^3$
- **pH:** Not applicable (solvent-based product)
- **Dosage:** 8–10 m²/L per coat, depending on surface porosity and texture



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- **Addition:** Ready to use; thinning with mineral spirits or recommended solvent up to 10% is optional for spray applications.
- **Method of Application:**
 - **Brush:** Suitable for small areas or detailed work, ensuring precision.
 - **Roller:** Ideal for large, flat surfaces, providing consistent coverage.
 - **Spray Gun:** Recommended for industrial or large-scale applications to achieve even and professional finishes.

Application Steps:

1. Clean the metal surface thoroughly, removing rust, grease, and dirt.
2. Sand the surface lightly to enhance adhesion.
3. Stir the primer well to ensure uniform consistency.
4. Apply one or two coats as needed, allowing 4–6 hours of drying time between coats.
5. Ensure proper curing (24–48 hours) before applying the topcoat.

Safety Instructions

- **Personal Protection:**
 - Use gloves, safety goggles, and a respirator to avoid skin and respiratory irritation.
 - Wear protective clothing to minimize skin contact.
- **Ventilation:**
 - Ensure proper ventilation during and after application to prevent inhalation of harmful fumes.
- **Fire and Explosion Hazards:**
 - Zinc Chromate Primer is flammable. Keep it away from heat, open flames, and sparks. Use only non-sparking tools.
- **First Aid Measures:**
 - **Skin Contact:** Wash thoroughly with soap and water. Seek medical attention if irritation occurs.
 - **Eye Contact:** Rinse immediately with clean water for at least 15 minutes. Consult a doctor if symptoms persist.
 - **Inhalation:** Move to fresh air immediately. Seek medical help if dizziness, nausea, or breathing difficulties occur.
 - **Ingestion:** Do not induce vomiting; seek immediate medical attention.
- **Storage:**
 - Store in a cool, dry place away from direct sunlight, heat sources, and ignition points. Keep containers tightly sealed.
- **Disposal:**

Dispose of unused primer and empty containers in accordance with local environmental regulations. Avoid releasing into water bodies or drainage systems.

Adhering to these guidelines ensures safe and effective use of Zinc Chromate Primer, delivering optimal performance and protection for metal surfaces.