



Technical Data Sheet for Oil-Based Primer

Product Description

Oil-Based Primer is a premium, solvent-based primer formulated to provide excellent adhesion, durability, and stain-blocking properties. Designed for both interior and exterior use, it creates a robust and reliable foundation for oil-based and water-based topcoats. The advanced formula penetrates and seals porous surfaces while blocking stains, such as tannins, watermarks, and smoke residue, ensuring a flawless finish. This primer is particularly effective on wood, metal, masonry, and other challenging surfaces, offering superior moisture resistance and preventing peeling or cracking of topcoats. It provides a smooth, sandable surface that enhances the longevity and appearance of the final paint layer.

Oil-Based Primer dries to a hard, durable finish, making it suitable for areas exposed to wear and tear. Its high opacity ensures excellent coverage, even on dark or uneven surfaces. Additionally, its formulation resists mildew, mold, and corrosion, making it ideal for humid or high-moisture environments.

Recommended Use

Oil-Based Primer is versatile and ideal for a range of applications:

- Wood Surfaces:**
 - Seals and blocks tannin stains from bleeding through topcoats.
 - Ideal for bare, previously painted, or varnished wood surfaces like doors, windows, furniture, and trim.
- Metal Surfaces:**
 - Protects against rust and corrosion on ferrous and non-ferrous metals.
 - Suitable for gates, railings, pipes, and structural steel when used with a compatible rust-inhibiting agent.
- Masonry and Concrete:**
 - Prevents moisture penetration and alkalinity issues, providing an ideal base for paint.
 - Suitable for plaster, brick, stucco, and cementitious surfaces.
- Previously Painted Surfaces:**
 - Ensures adhesion and uniformity for repainting projects, especially when covering glossy or weathered paints.
- Stain Blocking:**
 - Effectively conceals challenging stains from water, smoke, grease, or ink.
- High-Moisture Environments:**
 - Ideal for kitchens, bathrooms, and exterior walls exposed to humidity and rain.

Technical Data

- Basis:** Solvent-based oil resin
- Appearance:** Smooth, opaque white 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 type and porosity
- Addition:** Ready to use; thinning with mineral spirits up to 10% is optional for specific applications.



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- **Method of Application:**

- **Brush:** Ideal for precise areas like edges and corners.
- **Roller:** Suitable for large, flat surfaces for efficient coverage.
- **Spray Gun:** Recommended for professional applications requiring an even and smooth finish.

Application Steps:

1. Clean the surface to remove dust, grease, or loose particles.
2. Sand glossy surfaces lightly to improve adhesion.
3. Stir the primer thoroughly before use.
4. Apply one or two coats, allowing 12–24 hours of drying time between coats, depending on humidity and temperature.
5. Sand between coats for an ultra-smooth finish, if required.

Safety Instructions

- **Personal Protection:**
 - Wear gloves, protective goggles, and a respirator to avoid skin and respiratory irritation.
 - Avoid prolonged contact with skin and eyes.
- **Ventilation:**
 - Ensure proper ventilation during and after application, particularly in enclosed spaces, to minimize inhalation of fumes.
- **Fire Hazards:**
 - The product is flammable. Keep away from heat, sparks, open flames, and smoking areas during use and storage.
- **First Aid Measures:**
 - **Skin Contact:** Wash with soap and water immediately.
 - **Eye Contact:** Rinse with clean water for 15 minutes and seek medical help if irritation persists.
 - **Inhalation:** Move to fresh air; seek medical attention if symptoms like dizziness or nausea occur.
 - **Ingestion:** Do not induce vomiting. Consult a physician immediately.
- **Storage:**
 - Store in a cool, dry place away from direct sunlight and ignition sources. Keep the container tightly closed.
- **Disposal:**

Dispose of unused primer and empty containers responsibly, following local environmental regulations. Avoid releasing into drains or water bodies.

Adhering to these safety and application guidelines ensures effective results and minimizes risks during use.



Technical Data Sheet for Polyurethane Primer

Product Description

Polyurethane Primer is a premium-quality, two-component primer formulated with advanced polyurethane resins for maximum adhesion, durability, and chemical resistance. Engineered for superior performance, it acts as an excellent base layer for polyurethane and other high-performance coatings. This primer is designed for applications requiring exceptional resistance to abrasion, chemicals, and environmental exposure, making it ideal for industrial, commercial, and high-demand environments.

Its versatility allows for use on a wide range of substrates, including metal, wood, concrete, and previously coated surfaces. The primer enhances adhesion to these surfaces while sealing pores and imperfections, creating a smooth, uniform foundation for topcoats. It is particularly suited for environments exposed to moisture, UV radiation, or harsh chemicals.

Polyurethane Primer is fast-curing, reducing project timelines without compromising performance. Its high solids content provides excellent coverage and minimizes the need for multiple coats. With outstanding flexibility and weathering resistance, this primer ensures a long-lasting, protective base for topcoat systems.

Recommended Use

Polyurethane Primer is suitable for a wide array of applications, including:

- Industrial Coatings:**
 - Provides a strong base for industrial-grade polyurethane topcoats in facilities exposed to chemicals, abrasion, and mechanical stress.
 - Ideal for machinery, pipelines, and equipment.
- Metal Surfaces:**
 - Offers exceptional adhesion and rust protection for ferrous and non-ferrous metals, including steel, aluminum, and galvanized surfaces.
 - Suitable for marine, automotive, and structural applications.
- Concrete and Masonry:**
 - Seals porous surfaces and provides moisture resistance, making it ideal for floors, walls, and other concrete structures.
 - Ensures a smooth base for topcoats in parking garages, warehouses, and industrial plants.
- Wooden Substrates:**
 - Acts as a barrier to prevent moisture absorption and wood grain raising, creating a smooth base for durable finishes on furniture, cabinetry, and flooring.
- Outdoor and UV-Exposed Areas:**
 - Protects surfaces in harsh outdoor environments, ensuring resistance to UV rays and weathering.
- Previously Painted Surfaces:**
 - Ensures compatibility and adhesion to existing coatings for refinishing or restoration projects.

Technical Data

- Basis:** Two-component polyurethane resin system (base and hardener)
- Appearance:** Smooth, uniform liquid; available in white, gray, or clear
- Specific Gravity:** $1.25 \pm 0.05 \text{ g/cm}^3$ (mixed)



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- **pH:** Not applicable (solvent-based product)
- **Dosage:** 8–12 m²/L per coat, depending on surface porosity and texture
- **Addition:** Mix base and hardener in the recommended ratio (e.g., 4:1 by volume). Adjust viscosity with a compatible solvent if required for spray applications.
- **Method of Application:**
 - **Brush/Roller:** Best for small or detailed areas, providing even coverage.
 - **Spray:** Preferred for large or industrial applications, ensuring uniform thickness.

Application Steps:

1. Clean the substrate thoroughly, removing dirt, grease, rust, or loose materials.
2. Sand the surface lightly to improve mechanical adhesion.
3. Mix the base and hardener as per manufacturer instructions. Allow the mixture to induct for the specified time.
4. Apply a uniform coat using the preferred application method.
5. Allow proper curing time between coats (typically 4–6 hours for touch dry; 24 hours for full cure).

Safety Instructions

- **Personal Protection:**
 - Wear gloves, goggles, and a respirator during mixing and application to prevent skin, eye, and respiratory irritation.
 - Use protective clothing to avoid direct skin contact.
- **Ventilation:**
 - Ensure adequate ventilation during application, especially in confined spaces, to prevent inhalation of harmful fumes.
- **Fire and Explosion Hazards:**
 - The product is flammable. Keep away from heat, open flames, sparks, and smoking areas. Use non-sparking tools.
- **First Aid Measures:**
 - **Skin Contact:** Wash thoroughly with soap and water. Seek medical advice if irritation persists.
 - **Eye Contact:** Rinse immediately with clean water for at least 15 minutes and seek medical attention.
 - **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
 - **Ingestion:** Do not induce vomiting. Consult a physician immediately.
- **Storage:**
 - Store in a cool, dry, and well-ventilated area, away from direct sunlight and ignition sources. Keep containers tightly sealed.
- **Disposal:**

Dispose of unused product, mixing residues, and empty containers in accordance with local environmental regulations. Avoid releasing into waterways.

By adhering to these guidelines, Polyurethane Primer ensures optimal performance, safety, and durability for professional-grade applications.