



## Technical Data Sheet for Water-Based Primer

### Product Description

Water-Based Primer is a high-performance, eco-friendly primer designed to enhance the adhesion and durability of topcoats while providing excellent coverage and surface preparation. Formulated with advanced waterborne resin technology, it delivers superior bonding to a variety of substrates, including drywall, wood, concrete, plaster, and masonry. Its low-VOC and odorless formula make it an ideal choice for interior applications, ensuring a safer and more comfortable working environment.

This primer is particularly effective in sealing porous surfaces, providing a smooth and uniform base for paint application. It dries quickly, reducing project turnaround times, and is compatible with a wide range of latex and acrylic topcoats. Water-Based Primer also features excellent stain-blocking properties, effectively covering minor stains, marks, and discolorations to ensure a flawless finish.

The non-flammable, user-friendly composition ensures safe handling, making it suitable for both professional painters and DIY enthusiasts. Additionally, the primer's ability to resist peeling, cracking, and chalking enhances the longevity and performance of subsequent coatings.

### Recommended Use

Water-Based Primer is versatile and suitable for a range of residential, commercial, and industrial applications, including:

- Interior Walls and Ceilings:**
  - Prepares drywall, plaster, or painted surfaces for repainting.
  - Seals porous surfaces and hides minor imperfections for a consistent finish.
- Wood Surfaces:**
  - Ideal for untreated or previously painted wood.
  - Prevents tannin bleed from knots and stains in softwoods like pine.
- Concrete and Masonry:**
  - Effectively primes bare concrete, brick, and stucco surfaces.
  - Seals porous substrates to reduce paint absorption.
- Metal:**
  - Compatible with galvanized steel and aluminum when paired with appropriate topcoats.
- Kitchen and Bathroom Areas:**
  - Resists moisture and inhibits mold and mildew growth, making it suitable for high-humidity areas.
- Restoration Projects:**
  - Conceals old stains, smoke marks, and water damage on previously painted surfaces.

By enhancing adhesion and ensuring an even topcoat application, Water-Based Primer guarantees a professional-grade finish across various projects.

### Technical Data

- Basis:** Waterborne acrylic resin
- Appearance:** Smooth, white liquid with a matte finish after drying
- Specific Gravity:**  $1.25 \pm 0.05 \text{ g/cm}^3$
- pH:** 8–9
- Dosage:** 8–12 m<sup>2</sup>/L per coat, depending on surface porosity and texture
- Addition:** Ready to use; thinning with water (up to 5%) is optional for spray applications.
- Method of Application:**



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- **Brush:** Recommended for small or intricate areas, ensuring detailed coverage.
- **Roller:** Best for large, flat surfaces to provide an even coat.
- **Spray Gun:** Suitable for professional applications for a smooth, uniform finish.

### Application Steps:

1. **Surface Preparation:**
  - Clean the surface thoroughly to remove dirt, grease, and loose materials.
  - Repair cracks and sand rough areas for an even base.
2. **Mixing:**
  - Stir the primer thoroughly before use to ensure uniformity.
3. **Application:**
  - Apply one or two coats as necessary.
  - Allow 1–2 hours of drying time between coats under normal conditions (25°C, 50% humidity).
4. **Topcoat Application:**
  - Ensure the primer has fully dried and cured before applying the topcoat (typically 4–6 hours).

### Safety Instructions

- **Personal Protection:**
  - Wear protective gloves and goggles to avoid contact with skin and eyes.
  - Use a dust mask or respirator in poorly ventilated areas.
- **Ventilation:**
  - Ensure proper ventilation during application to minimize exposure to airborne particles.
- **Storage:**
  - Store in a cool, dry place, away from direct sunlight and freezing temperatures.
  - Keep the container tightly sealed when not in use.
- **First Aid Measures:**
  - **Skin Contact:** Wash thoroughly with soap and water. Seek medical attention if irritation persists.
  - **Eye Contact:** Rinse immediately with clean water for at least 15 minutes. If irritation continues, consult a physician.
  - **Inhalation:** Move to fresh air if dizziness or respiratory discomfort occurs. Seek medical attention if symptoms persist.
  - **Ingestion:** Rinse mouth with water and consult a physician immediately. Do not induce vomiting.
- **Disposal:**
  - Dispose of unused primer and empty containers in accordance with local regulations. Do not release into waterways or drains.

By following these guidelines, Water-Based Primer delivers outstanding adhesion, coverage, and durability, ensuring exceptional results for various painting projects.