



## Water-Based Distemper Technical Data Sheet

### Product Description

Water-based Distemper is a high-quality, eco-friendly, and versatile paint designed for interior walls and ceilings. This product is formulated with a combination of fine-grade pigments, natural binders, and water-based solvents, providing a smooth, matte finish. It is specifically designed to deliver excellent coverage, opacity, and durability while being free from harmful volatile organic compounds (VOCs), making it ideal for residential, commercial, and institutional applications.

Unlike oil-based distemper, which has a high solvent content, water-based distemper is environmentally friendly, offering lower emissions and making it safer for both the applicator and occupants of the building. It has a quick drying time, easy cleanup, and low odor, making it a popular choice for areas that require minimal disruption during application, such as homes, schools, and offices.

Water-based Distemper offers a consistent and smooth finish that helps to conceal minor surface imperfections, providing a fresh and clean look. Additionally, it is available in a variety of colors, enabling it to match different aesthetic preferences and interior décor styles.

This product is easy to apply, highly adaptable to various substrates, and maintains its appearance over time, resisting fading, cracking, and peeling. It provides a cost-effective, low-maintenance solution for a wide range of painting projects. The product's superior adhesion properties allow it to stick to previously painted surfaces without the need for extensive preparation, providing a smooth and flawless result.

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### Recommended Use

1. **Residential Interiors:**

Water-based Distemper is an excellent choice for interior walls and ceilings in residential areas. It is commonly used in living rooms, bedrooms, kitchens, and bathrooms, offering a fresh and attractive finish. The paint is ideal for areas that require a low-maintenance, easy-to-clean surface.

2. **Commercial Spaces:**

This product is commonly used in offices, schools, and hospitals due to its non-toxic nature, fast drying time, and low odor. Its smooth, matte finish enhances the appearance of commercial spaces while providing a durable and easy-to-maintain surface.

3. **Institutional Buildings:**

Water-based Distemper is suitable for application in public buildings, libraries, universities, and community centers. Its long-lasting finish and low-VOC properties make it a safe and practical choice for areas with heavy foot traffic and frequent use.

4. **New Construction:**

Water-based Distemper is ideal for new construction projects, particularly where quick application and drying are important. It provides a cost-effective and attractive solution for large-scale painting applications.

5. **Renovations and Refurbishments:**

For areas requiring renovation or touch-ups, Water-based Distemper adheres well to both fresh plaster and previously painted surfaces. It is a perfect choice for refreshing the look of old surfaces, giving them a fresh and updated appearance.

6. **Ceiling Painting:**

Water-based Distemper is often used on ceilings due to its ability to provide a smooth finish with minimal streaking. It is especially suitable for areas with standard ceiling heights where durability and ease of application are key factors.

7. **Light to Moderate Traffic Areas:**



The product works well in areas with light to moderate traffic, offering a durable and attractive finish that resists minor scuffing, marks, and dirt.

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### Technical Data Specification

- **Colour:** Available in a wide range of colors.
- **Finish:** Matte finish.
- **Viscosity:** 100-110 KU (Krebs Unit).
- **Specific Gravity:** 1.3–1.5 g/cm<sup>3</sup>.
- **Solvent Content:** Water-based, low VOCs.
- **Drying Time:** Touch dry in 30-60 minutes; recoat after 2-4 hours.
- **Coverage:** 10-12 m<sup>2</sup> per liter (depending on surface texture and application method).
- **Flash Point:** Non-flammable.
- **Binder:** Water-based acrylic emulsion.
- **Volume Solid:** 40-45%.
- **pH:** 8.5–9.5.
- **VOC Content:** 50-100 g/L.

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### Dosage, Addition, and Method of Application

1. **Dosage:**

Water-based Distemper covers approximately 10-12 square meters per liter, depending on the surface texture and porosity. A minimum of two coats is recommended for optimal coverage and finish. For highly porous or textured surfaces, additional coats may be necessary.
2. **Addition:**

The product is ready to use directly from the can. However, it can be thinned with clean water (5-10%) if required, particularly for spray application or for achieving a smoother finish. Stir thoroughly before use to ensure a uniform consistency. Avoid adding excessive water as it can dilute the pigments and reduce the paint's coverage and finish quality.
3. **Method of Application:**
  - **Surface Preparation:**
    - Ensure the surface is dry, clean, and free from any dust, grease, or old peeling paint. For new plaster or masonry surfaces, allow sufficient drying time (at least 4-6 weeks) before applying the paint. For previously painted surfaces, lightly sand the area to remove any flaking or damaged paint. Prime porous or untreated surfaces with a suitable primer before application.
  - **Brush Application:**
    - Use a good quality synthetic bristle brush for cutting in around edges and corners. Apply the paint in smooth, even strokes to ensure an even finish. Start from the top and work your way down to avoid drips. Maintain a wet edge to prevent overlap marks.
  - **Roller Application:**
    - Use a medium nap roller for applying Water-based Distemper on large wall areas. Load the roller with the appropriate amount of paint and apply in a "W" or "M" motion to achieve even coverage. Use smooth, long strokes to eliminate roller marks. Apply sufficient pressure for optimal paint distribution.
  - **Spray Application:**
    - Water-based Distemper can also be applied using an airless spray system. For spray applications, ensure that the paint is thinned to the proper viscosity (5-10% water)



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for smooth and uniform coverage. Hold the spray gun approximately 30-40 cm from the surface to avoid overspray. Apply in multiple thin layers rather than a single thick coat.

- **Drying and Curing:**
  - Allow the first coat to dry for at least 2-4 hours before applying the second coat. The full curing time is 7-10 days. During this time, the paint will reach its full durability and finish. Avoid heavy cleaning or scrubbing during the curing period.
- **Post-Application Care:**
  - Clean brushes, rollers, and spray equipment immediately after use with water and soap. Do not let the product dry on tools to prevent permanent staining.

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### Safety Instructions

1. **Handling:**
  - Always wear gloves and goggles to protect your skin and eyes during the application of Water-based Distemper. In case of accidental contact, rinse the affected area with water immediately. Seek medical attention if irritation persists.
2. **Ventilation:**
  - Ensure adequate ventilation when using Water-based Distemper in confined areas. While it is a low-odor and low-VOC product, proper air circulation will help speed up the drying process and improve comfort during application.
3. **Storage:**
  - Store in a cool, dry place, away from direct sunlight, heat sources, or freezing conditions. Ensure the lid is tightly sealed when not in use to avoid contamination and preserve the product's effectiveness.
4. **First Aid:**
  - **Eye Contact:** Rinse eyes with water for at least 15 minutes. Seek medical attention if irritation persists.
  - **Skin Contact:** Wash skin thoroughly with soap and water. If irritation continues, consult a healthcare provider.
  - **Inhalation:** Move to fresh air immediately. If symptoms persist, seek medical attention.
  - **Ingestion:** Do not induce vomiting. Drink plenty of water and seek medical attention.
5. **Disposal:**
  - Dispose of leftover paint and containers in accordance with local waste disposal regulations. Do not pour the product down drains or into watercourses.

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Water-based Distemper is an environmentally friendly, easy-to-apply solution for achieving durable, attractive finishes for residential and commercial applications. Its low environmental impact, ease of use, and reliable performance make it a popular choice for a variety of surface coatings.