



## Oil-Based Distemper Technical Data Sheet

### Product Description

Oil-based Distemper is a premium-quality, traditional wall coating product designed for both interior and exterior applications. This versatile paint provides a smooth, matte finish with excellent durability and resistance to dirt, weathering, and minor abrasions. It is formulated with a blend of fine-grade pigments, extenders, and high-quality binders, resulting in a long-lasting and resilient coating for a variety of surfaces. Unlike water-based paints, Oil-based Distemper has a higher sheen retention and is more resistant to harsh environmental conditions. It forms a tougher, more durable coating that is ideal for high-traffic areas or surfaces exposed to moisture. Its oil-based nature also provides better flexibility, making it suitable for surfaces prone to slight movement or expansion and contraction, such as plaster and masonry.

Oil-based Distemper is well-regarded for its ease of application, excellent opacity, and superior coverage. It dries to a hard, satin-like finish that resists moisture, dirt, and stains, ensuring that walls maintain their attractive appearance even in high-use environments. Additionally, this distemper offers good adhesion to both new and previously painted surfaces, making it a preferred choice for renovation and maintenance projects.

The product is available in a wide range of colors, providing a choice of decorative finishes for both residential and commercial applications. It is a cost-effective solution for achieving a durable and aesthetically pleasing result without the need for frequent maintenance or repainting.

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### Recommended Use

1. **Residential Interiors:**

Oil-based Distemper is ideal for use in living rooms, dining rooms, bedrooms, and hallways. It is perfect for areas that require a long-lasting, durable finish that resists wear and tear from everyday activity. Its smooth, matte finish gives a classic look, enhancing the interior décor while maintaining its appearance for an extended period.

2. **Commercial Applications:**

This distemper is well-suited for use in offices, schools, hospitals, and hotels, where high-traffic surfaces require a robust coating that can withstand frequent cleaning and handling. Its easy-to-maintain surface and resistance to staining make it a practical option for commercial spaces.

3. **Exteriors of Buildings:**

Suitable for exterior applications on masonry, brick, or plaster surfaces, Oil-based Distemper provides excellent protection against weathering and ensures that the exterior remains aesthetically pleasing despite exposure to harsh weather conditions. It is commonly used on façades, fences, and garden walls.

4. **High-Humidity Areas:**

The oil-based formulation of this distemper provides enhanced moisture resistance, making it suitable for kitchens, bathrooms, and laundry rooms. It prevents the growth of mold and mildew, ensuring long-lasting protection against damp environments.

5. **Repair and Renovation Work:**

This product is ideal for refurbishment and maintenance projects, particularly in buildings where previous layers of distemper or oil-based paints need to be reapplied. It adheres well to old coatings, providing a new finish with minimal preparation required.

6. **Surfaces with High Wear:**



Oil-based Distemper is excellent for areas exposed to constant contact, such as doorframes, windowsills, and baseboards. Its durability ensures that it can withstand regular cleaning without compromising the finish.

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### Technical Data Specification

- **Colour:** Available in a wide range of colors.
- **Finish:** Matte finish with slight sheen.
- **Viscosity:** 100-120 KU (Krebs Unit).
- **Specific Gravity:** 1.4–1.5 g/cm<sup>3</sup>.
- **Solvent Content:** Contains organic solvents.
- **Drying Time:** Touch dry in 1-2 hours; recoat after 4-6 hours.
- **Coverage:** 8-10 m<sup>2</sup> per liter (depending on surface texture).
- **Flash Point:** 35–40°C.
- **VOC Content:** 200-300 g/L.
- **Binder:** Oil-based alkyd resins.
- **Volume Solid:** 45-50%.

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### Dosage, Addition, and Method of Application

1. **Dosage:**

The approximate coverage of Oil-based Distemper is 8-10 m<sup>2</sup> per liter, depending on the texture and porosity of the surface. For rough or porous surfaces, more product may be required to achieve uniform coverage. For optimal performance, two coats of paint are recommended, particularly on highly absorbent surfaces.

2. **Addition:**

Oil-based Distemper is typically supplied in a ready-to-use form, but for certain conditions, it can be thinned with a small amount of turpentine or mineral spirits to adjust the viscosity for brush or spray application. For spray applications, a thinner may be necessary, usually 5-10% dilution with mineral spirits or turpentine.

- **Mixing:** Stir the paint thoroughly before use to ensure uniform consistency of pigments and resins. Do not add excess solvent, as this may affect the finish and durability of the paint.

3. **Method of Application:**

- **Surface Preparation:**

- Surfaces should be dry, clean, and free of dust, grease, or any loose particles. Ensure that any old, peeling paint is scraped off before applying the new coat. For unpainted plaster, allow the surface to dry thoroughly before applying the first coat of Oil-based Distemper. Smooth out cracks or surface imperfections with a filler for a uniform finish.
- For exterior surfaces, ensure that the surface is completely clean and dry. If there is existing mold or mildew, treat the surface with a fungicidal solution before painting.

- **Application by Brush:**

- Use a high-quality natural bristle brush to apply the paint. Start by cutting in along edges and corners, then apply the paint in long, even strokes. Maintain a wet edge to avoid lap marks. The first coat should be applied evenly, with particular attention to the edges and seams.

- **Application by Roller:**



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- For roller application, use a medium nap roller suited for oil-based paints. Load the roller with an appropriate amount of paint and apply in an "M" or "W" motion to distribute the paint evenly. Then, use long, smooth strokes to remove any roller marks.
- **Application by Spray:**
  - Oil-based Distemper can be applied using an airless spray system or HVLP (high-volume low-pressure) spray system. Ensure that the paint is thinned to the correct viscosity and adjust the spray nozzle accordingly. Maintain the recommended distance of approximately 30 cm from the surface to ensure an even coat.
- **Drying and Curing:**
  - Allow the first coat to dry for 4-6 hours before applying the second coat. Full curing time is 7-10 days, during which the paint reaches its full durability and resistance.
- **Post-Application Care:**
  - Clean brushes, rollers, and spray equipment immediately after use with mineral spirits or turpentine. Do not allow the product to dry on tools, as it may cause permanent damage.

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### Safety Instructions

1. **Handling:**
  - Always wear gloves, goggles, and protective clothing when handling Oil-based Distemper to prevent skin and eye contact. In case of accidental contact, rinse the affected area with water immediately. Seek medical advice if irritation persists.
2. **Ventilation:**
  - Ensure that the area being painted is well-ventilated. Use fans or open windows to allow for proper air circulation during application and drying.
3. **Storage:**
  - Store Oil-based Distemper in a cool, dry place, away from direct sunlight and heat sources. Keep containers tightly sealed when not in use to avoid contamination and preserve the product's effectiveness.
4. **First Aid:**
  - **Eye Contact:** Rinse eyes immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
  - **Skin Contact:** Wash affected skin with soap and water. If irritation continues, seek medical advice.
  - **Inhalation:** Move to fresh air immediately. Seek medical attention if symptoms persist.
  - **Ingestion:** Rinse mouth with water and seek immediate medical assistance.
5. **Disposal:**
  - Dispose of leftover paint and containers according to local waste disposal regulations. Do not pour the paint down drains or into watercourses.
6. **Flammability:**
  - Oil-based Distemper is flammable. Keep away from open flames, sparks, or sources of heat during use, application, and storage.

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Oil-based Distemper is a high-performance, durable paint ideal for both residential and commercial projects. Its long-lasting finish, easy application, and versatility make it a preferred choice for a variety of surface coatings.

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