



Synthetic Distemper Technical Data Sheet

Product Description

Synthetic Distemper is a premium quality, water-based paint formulation designed for interior walls and ceilings. It is crafted with synthetic resins and high-quality pigments to provide a smooth, durable finish that can withstand daily wear and tear. This modern distemper offers a smooth, matte appearance with excellent opacity, covering up to 100 square feet per liter, depending on the surface type.

Unlike traditional lime-based distempers, Synthetic Distemper is more versatile, quick-drying, and less prone to the effects of humidity. It provides a more resilient finish that resists fading over time and is easy to clean. Its non-toxic, low-odor properties make it an excellent choice for both residential and commercial spaces. Available in a wide range of colors, Synthetic Distemper can be mixed with various pigments to create custom hues, providing flexibility in design.

Synthetic Distemper is perfect for new constructions and renovation projects, offering a long-lasting aesthetic that enhances the beauty of any interior. It is well-suited for application in offices, schools, homes, and healthcare facilities, offering both durability and a clean, fresh appearance. With its advanced formulation, Synthetic Distemper resists yellowing and maintains its color for years, making it a cost-effective solution in the long run.

Due to its smooth texture, this distemper is also ideal for surfaces that require a fine finish. Its formulation ensures easy application and minimal maintenance, making it a preferred choice for both professional painters and DIY enthusiasts. It dries quickly to a flawless, matte finish, which is soft to the touch and enhances the overall aesthetic appeal of walls and ceilings.

Recommended Use

- Residential Walls and Ceilings:** Synthetic Distemper is a popular choice for interior walls and ceilings in homes. It provides a clean, smooth finish that complements various interior design styles, from modern to traditional. It is ideal for living rooms, bedrooms, kitchens, and hallways, ensuring a fresh look that enhances the home's atmosphere.
- Commercial and Office Spaces:** Due to its durable finish, Synthetic Distemper is commonly used in office buildings and commercial spaces. It provides a professional appearance, with the ability to withstand the regular cleaning and maintenance required in high-traffic areas. It also contributes to a clean, hygienic work environment by resisting dirt and stains.
- Schools and Hospitals:** The product is ideal for educational institutions and healthcare facilities, where durability and ease of cleaning are crucial. Its non-toxic and low-odor formula makes it safe for environments with children or patients. The quick-drying nature of Synthetic Distemper ensures minimal disruption to daily activities during application.
- Renovation and Repainting:** Synthetic Distemper is perfect for both new construction and renovation projects. It offers an affordable solution for updating or refreshing the appearance of walls and ceilings. Its ability to cover up imperfections and provide a flawless finish makes it an excellent choice for repainting older surfaces.
- Custom Colors for Creative Projects:** Synthetic Distemper is available in a variety of pre-mixed colors but can also be customized by adding pigments to create unique shades. This makes it an excellent option for personalizing spaces and achieving specific design visions.
- High Traffic and Humid Areas:** Its resistance to fading, ease of cleaning, and durable finish make Synthetic Distemper suitable for areas with high moisture or traffic, such as kitchens, bathrooms, corridors, and public spaces.



Technical Data Specification

- **Colour:** Available in a wide range of standard colors; customizable with pigment addition.
- **Finish:** Smooth, matte.
- **Viscosity:** 70-80 KU (Krebs Unit).
- **Binder:** Synthetic resin-based binder.
- **Specific Gravity:** 1.45–1.55 g/cm³.
- **Solvent Content:** Water-based (Low VOC).
- **Drying Time:** Touch dry in 30–60 minutes; recoat in 2–4 hours.
- **Coverage:** 8–10 m² per liter per coat.
- **Flash Point:** Non-flammable.
- **pH:** 8–9.
- **Volume Solid:** 35–40%.
- **VOC Content:** ≤ 50 g/L.
- **Binder Solid:** 30–35%.

Dosage, Addition, and Method of Application

1. **Dosage:**
The typical coverage of Synthetic Distemper is between 8 and 10 m² per liter, depending on the porosity and texture of the surface. Two coats are generally recommended for optimum coverage and durability. Additional coats may be required for surfaces with significant imperfections or if a deeper shade is desired.
2. **Addition:**
Synthetic Distemper can be customized by adding synthetic or organic pigments. For color mixing, add 1–2% of pigment by volume, depending on the desired intensity. If the mixture becomes too thick during use, it can be thinned with water by up to 10%, but it is advised not to dilute beyond this point to maintain optimal performance.
3. **Method of Application:**
 - **Surface Preparation:**
Before applying Synthetic Distemper, ensure that surfaces are clean, dry, and free of dust, grease, or previous paint residues. Patch any holes or cracks with an appropriate filler and allow it to dry completely. Sand the surface lightly for a smooth, even texture.
 - **Mixing:**
Stir the product well before use to ensure the consistency is uniform. If needed, add water to adjust the viscosity, but avoid excessive thinning, as it may affect the paint's coverage and finish. If mixing with pigments, ensure they are properly dissolved into the base paint.
 - **Application by Brush:**
Use a high-quality synthetic brush for painting. Begin applying the paint in long, even strokes, starting from the edges and working towards the center. Apply one thin coat first, allowing it to dry for 2–4 hours. Once dry, apply the second coat for full coverage.
 - **Application by Roller:**
For faster application, use a medium-density roller. Roll the paint in an "M" or "W" pattern to cover large areas evenly. Always maintain a wet edge to avoid streaks. Apply two thin coats for best results.
 - **Application by Spray:**
For large surface areas, spray application may be preferred. Adjust the paint's viscosity by thinning slightly with water if necessary. Use an airless spray system for an even coat. Apply multiple light layers, allowing each to dry fully before re-coating.



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- **Drying Time:**
Synthetic Distemper dries to the touch in about 30–60 minutes, depending on temperature and humidity. Recoating can be done in 2–4 hours. Full curing may take up to 24 hours.
- **Cleanup:**
Clean tools, brushes, and rollers with warm water immediately after use. Dried paint may require scrubbing with a brush or sponge.

Safety Instructions

1. **Handling:**
Always handle Synthetic Distemper with care. Avoid contact with skin and eyes. If the product comes into contact with skin, wash immediately with soap and water. If it comes into contact with eyes, rinse thoroughly with water for at least 15 minutes and seek medical attention.
2. **Ventilation:**
Ensure adequate ventilation in the area where Synthetic Distemper is being applied. Open windows and use fans to circulate air, which will aid in faster drying and reduce potential inhalation of fumes.
3. **Protective Equipment:**
While applying Synthetic Distemper, it is recommended to wear gloves, goggles, and a face mask, especially if using in poorly ventilated areas. This will help protect against splashes and accidental inhalation of fumes.
4. **Storage:**
Store Synthetic Distemper in a cool, dry area away from direct sunlight or freezing temperatures. Ensure that the container is tightly closed to prevent contamination or drying out. Keep it out of reach of children and pets.
5. **First Aid:**
 - **Eye Contact:** Rinse immediately with plenty of water. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water. If irritation occurs, consult a doctor.
 - **Inhalation:** Move to fresh air immediately. If symptoms persist, seek medical attention.
 - **Ingestion:** If swallowed, rinse mouth with water and seek medical attention.
6. **Disposal:**
Dispose of any unused Synthetic Distemper or empty containers in accordance with local waste disposal regulations. Do not pour leftover paint down drains or into waterways.

Synthetic Distemper offers an affordable, durable, and eco-friendly painting solution for interior applications. With its versatile nature, ease of application, and superior finish, it's the perfect choice for a wide range of residential, commercial, and institutional projects.