



Lime Distemper Technical Data Sheet

Product Description

Lime Distemper is a traditional water-based paint formulation made primarily from slaked lime, natural pigments, and other eco-friendly additives. Known for its natural matte finish, Lime Distemper has been used for centuries in both historical restoration projects and modern-day applications due to its sustainable and breathable properties. This paint offers a natural, rustic look with an elegant, velvety appearance and is an excellent choice for both contemporary and period-style buildings.

The base ingredient, slaked lime, provides natural antibacterial and antifungal properties, making Lime Distemper a good option for areas with high humidity, like bathrooms or kitchens. It allows the walls to breathe by permitting moisture to evaporate, which prevents issues like mildew and mold build-up. Furthermore, Lime Distemper is non-toxic, free from volatile organic compounds (VOCs), and environmentally friendly, making it a sustainable choice for both residential and commercial applications. Lime Distemper is easy to apply and requires minimal maintenance. It is typically used for interior walls and ceilings, offering excellent coverage and a non-reflective finish. Available in various pastel shades, it can be mixed with natural pigments to create custom colors, giving users a range of design possibilities. The application of Lime Distemper results in a soft, smooth surface that complements the natural ambiance of interiors, creating a calm and soothing atmosphere.

Due to its natural composition, Lime Distemper has the added benefit of being a more affordable alternative to modern paints while still offering a high-quality, durable finish. It is also highly biodegradable, contributing to environmental sustainability. Lime Distemper is also an ideal choice for those seeking an eco-conscious painting solution with a traditional aesthetic.

Recommended Use

1. **Interior Walls and Ceilings:**

Lime Distemper is most commonly used for painting interior surfaces such as walls and ceilings in residential homes, offices, schools, and hospitals. It provides a soft, matte finish that is ideal for creating calm and serene spaces.

2. **Renovation and Restoration:**

Lime Distemper is often chosen for historic building restoration due to its breathable properties and traditional finish. It can be used on older surfaces where vapor permeability is essential, especially in areas with rising damp or high humidity.

3. **Moisture-Prone Areas:**

Since Lime Distemper is naturally antifungal and antibacterial, it is highly effective in areas prone to mold and mildew, such as kitchens, bathrooms, and basements. The paint's ability to allow moisture to escape from walls prevents the buildup of dampness, making it ideal for such environments.

4. **Eco-Friendly Projects:**

Lime Distemper is the perfect choice for environmentally conscious projects. Its natural composition makes it suitable for homes or buildings seeking to minimize their environmental footprint by using non-toxic, biodegradable products.

5. **Budget-Friendly Solution:**

As a low-cost alternative to modern paints, Lime Distemper is particularly useful for those on a budget. It offers an affordable solution while still providing a high-quality finish and long-lasting results. It is ideal for large-scale projects where cost considerations are important.

6. **Custom Color Creation:**



Lime Distemper can be easily customized by mixing with natural pigments to achieve unique color shades. This makes it versatile for various interior design schemes and suitable for both contemporary and traditional spaces.

Technical Data Specification

- **Colour:** Available in various shades, custom colors can be made by mixing natural pigments.
- **Finish:** Matte, non-reflective finish.
- **Viscosity:** 25–30 KU (Krebs Unit).
- **Specific Gravity:** 1.5–1.6 g/cm³.
- **Binder:** Slaked lime-based binder.
- **Solvent Content:** Water-based.
- **Drying Time:** Touch dry in 1–2 hours; recoating time 4–6 hours.
- **Coverage:** 8–10 m² per kg (depending on surface texture and porosity).
- **Flash Point:** Non-flammable.
- **VOC Content:** 0 g/L (environmentally friendly).
- **pH:** 11–12.
- **Volume Solid:** 30–40%.

Dosage, Addition, and Method of Application

1. **Dosage:**

Typically, 1 kg of Lime Distemper powder covers approximately 8–10 square meters per coat, depending on the surface texture and porosity. Two coats are generally recommended for full coverage, with more coats for surfaces requiring additional opacity.
2. **Addition:**

Lime Distemper is supplied in dry powder form. To prepare the paint, mix the powder with clean water in the recommended ratio of approximately 0.5–0.6 liters of water per 1 kg of powder. Stir the mixture thoroughly until it forms a smooth, lump-free paste. The mixture can be thinned further by adding small amounts of water if needed to achieve the desired consistency for application. Let the mixture sit for 15–20 minutes to allow the lime to fully hydrate.
3. **Method of Application:**
 - **Surface Preparation:**
 - Ensure that the surface to be painted is clean, dry, and free from any dirt, grease, or other contaminants. If necessary, clean the walls using a mild detergent and water. Allow the surface to dry completely before painting. For newly plastered walls, wait for 4–6 weeks to allow the plaster to cure before applying Lime Distemper.
 - **Mixing:**
 - Gradually add clean water to the Lime Distemper powder in a clean container, stirring until the mixture is smooth and lump-free. Let the mixture rest for 15–20 minutes to ensure proper consistency and hydration.
 - **Application:**
 - **Brush Application:**
 - Use a high-quality, soft-bristled brush for applying Lime Distemper to walls and ceilings. Begin at the edges and corners and work towards the center of the surface, applying in even, long strokes. It is recommended to apply the paint in two thin coats for optimal coverage and appearance. Allow the first coat to dry for 4–6 hours before applying the second coat.



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- **Roller Application:**
 - If using a roller, select a high-density roller cover. Roll the Lime Distemper in an "M" or "W" pattern to ensure even coverage without streaking. Apply the paint in small sections to maintain a wet edge.
- **Spray Application:**
 - For larger areas, Lime Distemper can also be applied with a spray gun. Thin the paint mixture with a small amount of water if necessary. Apply in light, even coats, allowing each coat to dry completely before re-coating.
- **Drying Time:**
 - Lime Distemper is touch dry within 1–2 hours, with full drying and curing time taking approximately 24 hours for each coat. The paint will continue to cure over the following days, achieving its maximum durability and finish after 7 days.
- **Cleaning:**
 - Clean brushes, rollers, and spray equipment immediately after use with soap and water. Dried Lime Distemper can be difficult to remove, so it is essential to clean tools promptly.

Safety Instructions

1. **Handling:**
 - Always wear gloves, goggles, and protective clothing when handling Lime Distemper, as the powdered form can cause skin and eye irritation. In case of contact with eyes, rinse thoroughly with water for at least 15 minutes and seek medical attention if irritation persists.
2. **Ventilation:**
 - Ensure adequate ventilation when applying Lime Distemper, especially in confined spaces. Open windows and use fans to facilitate air circulation and reduce humidity, which can help the drying process.
3. **Storage:**
 - Store Lime Distemper in a cool, dry place, away from direct sunlight and humidity. Ensure the container is tightly sealed to prevent moisture absorption. The powder should be stored in airtight packaging to maintain its quality and effectiveness.
4. **First Aid:**
 - **Eye Contact:** Rinse eyes with water immediately for at least 15 minutes. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash skin 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 help.
5. **Disposal:**
 - Dispose of leftover Lime Distemper and containers according to local environmental regulations. Do not pour unused paint or water-based mixtures down drains or into water systems. Ensure proper disposal at a designated facility.

Lime Distemper is an environmentally friendly, cost-effective, and durable paint suitable for a range of applications. Its breathable and natural composition makes it ideal for interiors requiring a matte finish, particularly in areas with high humidity or moisture. This paint is a great choice for residential, commercial, and renovation projects, offering sustainable and aesthetically pleasing results.

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