

1. General Description

Cloudlime is a handcrafted premium limewash paint with zero-VOC and is 100% mineral based.

2. Main Uses

For interior: dry area walls and ceilings

For exterior: only on surfaces not in contact with rain or splashes, eg, covered balcony walls

3. Characteristics

Matt finish

Cures by carbonation only, $\text{Ca(OH)}_2 + \text{CO}_2 \rightarrow \text{CaCO}_3 + \text{H}_2\text{O}$.

Can be kept indefinitely if tightly sealed.

Breathable, does not peel or blister

100% UV-stable (mineral-based)

Zero-VOC

Has natural antibacterial and antiviral properties from high alkalinity

Static-free. Does not attract dust, enhancing indoor air quality

Safe for those with allergies and hypersensitivity to chemicals

4. Recommended painting system

It is important to note Cloudlime is a 100% mineral-based limewash paint. It does not contain any acrylic resins or polymers. Hence, it anchors itself by forming “roots” into an absorbent layer. Painting Cloudlime directly on a non-absorbent surface will result in paint flaking off and high levels of dusting.

Type	Examples	Recommended System
Non absorbent surfaces	Laminates Metal Glass Tiles Plastics (eg PVC pipes) Gloss epoxy/oil based paint	<i>Suitable primer (for water based emulsion paint)</i> ¹ + 2 coats of Casein Primer + 2-3 coats of Cloudlime
Slightly absorbent surfaces	Matt water-based acrylic-emulsion based paint Water based acrylic-emulsion based primer Plasterboard	2 coats of Casein Primer + 2-3 coats of Cloudlime
Absorbent surfaces	Cement or lime screed / plaster Gypsum plastered finish Unsealed timber / plywood Unsealed brick wall	2 coats of Casein Primer + 2-3 coats of Cloudlime

¹ This is an additional primer, to be sourced with consideration to original substrate. For example, painting limewash over a surface previously painted with oil-based paints, requires a layering system something like oil-based sealer + water-based primer + Casein Primer + Cloudlime

5. Application Procedures

Surface Preparation

Achieve optimal adhesion and a refined finish by beginning with a clean, dust-free substrate. If any irregularities or debris remain from the previous **Casein Primer** application, lightly sand the affected areas using 1000–1500 grit (or finer) sandpaper to produce a smooth surface.

Prior to application, lightly dampen the substrate using a fine mist sprayer or a damp brush. Allow the standing water to absorb into the material. Application can commence as soon as the surface sheen dissipates.

Mixing

Thoroughly mix the Cloudlime mixture before use. Visually inspect the bottom of the transparent container to ensure all pigments are fully integrated.

Note: Heavy mineral pigments naturally settle over time. Re-mix Cloudlime thoroughly at regular intervals throughout application to maintain color uniformity and prevent streaking.

Tool Loading

For optimal application, keep two brushes accessible: a minimum 4-inch block brush for broad coverage and a 1-inch detail brush for precision along edges. Dip only the tip—approximately one inch of the bristles into the paint, then flick off excess material prior to each loading.

Note: Optimal depth and coverage are achieved through multiple thin coats rather than a single heavy coat.

Starting Point:

Begin application at a top corner to avoid splattering on areas already completed. Right-handed applicators should start from the upper-left corner of the wall, while for left-handed applicators, from the upper-right.

Stroke Pattern and Edge Control:

Apply Cloudlime in your preferred stroke pattern, maintaining a continuous wet edge throughout the process.

Continuity:

If the area is large, you should consider having more applicators to avoid dry joint lines.

Complete an entire plane without interruption to prevent joint lines.

Multi-Coat Layering

Apply the next coat once the previous coat has reached approximately 80% dryness. Standard applications require two coats, whereas three coats produce enhanced dimensional depth.

Note: During hot days, lightly mist the surface between coats to maintain workable edges and prevent premature drying

6. Cleaning

All tools should be cleaned with water after use. For persistent stains, use vinegar.

7. Packaging

5L buckets

8. Color

White or coloured

9. Consumption

Approximately 8 to 13sqm/L, depending on porosity.

10. Disposal

Allow water to evaporate from bucket before disposing as regular waste

11. Safety

This product is highly alkaline. Prolonged skin contact will cause redness and discomfort.

Always wear relevant PPE, including vinyl gloves, safety glasses and long-sleeved attire. Refer to Safety Data Sheet for more information.

12. Disclaimer

While the technical data and recommendations provided in this report reflect our current knowledge and experience, they should be considered indicative and subject to verification through practical, long-term application. Users must independently evaluate and confirm the suitability of Cloudlime for their specific intended use prior to application. The user assumes full responsibility and liability for any consequences or outcomes resulting from the use of this product.