

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 (e.g. PVC pipes), gloss epoxy/oil-based paint	<i>Suitable primer (for water-based emulsion paint)</i> ¹ + 2 coats of Casein Primer + Cloudlime
Slightly absorbent surfaces	Matt water-based acrylic-emulsion based paint, water based acrylic-emulsion based primer, plasterboard	2 coats of Casein Primer + Cloudlime
Absorbent surfaces	Cement or lime screed/plaster, gypsum plaster, raw brick wall	2 coats of Casein Primer (optional, but recommended to regulate absorption) + Cloudlime
Absorbent surfaces	Raw timber/plywood	<i>Water based tannin-blocking primer</i> ² + 2 coats of Casein Primer + 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

² To stop the yellow tannin in wood from surfacing, we need a suitable primer to block it.

5. Application Procedures

Site Protection: Mask and cover all surrounding surfaces — using plastic drop sheets before commencing. Limewash can cause permanent staining or etching on natural stone and wood. Immediately remove any accidental splatters with a damp cloth before they dry.

Surface Preparation: Continuing from the end of Casein Primer application, achieve optimal adhesion and a refined finish by starting with a uniform, clean and dust-free substrate. If any irregularities or specks remain from the previous **Casein Primer** application, lightly sand the affected areas using ~800 grit(or finer) sandpaper to produce a smoother surface. Brush and remove the dust.

Mixing: Thoroughly mix Cloudlime mixture before use. Visually inspect the bottom of the transparent container to ensure all pigments are uniformly suspended.

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

Brush Load: For optimal application, keep two brushes accessible: e.g., a 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: The best results are always achieved through multiple thin coats rather than a single heavy coat.

General Workflow: Begin application at a top corner of your choice to avoid splattering on areas already completed. Apply Cloudlime in your preferred stroke pattern, maintaining a continuous wet edge throughout the process. 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.

Recoating: 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.

Recoat Time	Approx. 30 minutes, or before fully dried.
Touch Dry:	Approx. 1 hr under normal daytime conditions.

Important Notes:

Note 1: During hot days, lightly mist the surface between coats to maintain workable edges and prevent premature drying

Note 2: Keep bucket closed when not in use to minimize surface carbonation of Cloudlime in container.

6. Cleaning

Clean tools immediately after use with soap and water. For persistent stains on other surfaces: vinegar or citrus-based, wax-infused furniture spray are effective.

7. Packaging

5kg bucket and 400g sample pot

8. Color

White or coloured liquid

9. Consumption

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

10. Disposal

Disposal must be made according to official regulations.

Do not dispose with other household garbage.

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.