Product sheet

Lime thin-layer plaster

Item No. 21.350

gräfix 61 fine

- **Traditional lime render mortar**
- **Pure and cement-free**
- **Suitable for clay construction**

Gräfix renders are cement-free air lime mortars for historic preservation and restoration. They are ideally suited for ClayTec clay substrates. Lime thin-layer plaster is a finish coat for use on lime substrates (exterior) or clay substrates (interior).

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Product data and application see reverse

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Field of Application Air lime mortar for exterior rendering in timber-frame restoration and for interior rendering on clay base coats in historic preservation and restoration.

Composition Lime, crushed limestone sand 0–0.8 mm, and workability-enhancing additives (surfactants, cellulose, and methyl cellulose totaling less than 0.5 %).

Material Properties Bulk density: approx. 1,350 kg/m³. Strength class: corresponds to CS I according to DIN EN 998-1

Delivery Form and Coverage Supplied in moisture-protected 25 kg bags (yields approx. 20 liters of render mortar).
Consumption approx. 1.25 kg/m² per mm of render thickness. Approx. 6.5 m² per bag at a 3 mm application thickness. 40 bags per pallet.

Storage Can be stored dry on pallets or wooden racks for at least 6 months.

Mortar Preparation Mix with approx. 6.5 liters of water per 25 kg bag using a power mixer. Larger quantities may also be mixed using standard free-fall mixers, pan mixers, or trough mixers. Suitable for machine application using a mixing pump.

Substrate Preparation Clay base coats or existing clay infill panels must be completely dry, dust-free, level, and sufficiently rough.
Lime base coats must be fully cured.

Render Build-Up Depending on the substrate and the desired surface finish, the following render systems are possible:
Fine: 61 Lime thin-layer plaster applied directly to intact clay infill panels (single-layer application) according to the CLAYTEC "Timber-Frame Construction Guidelines"
Fine: 61 Coarse Lime Base Coat with Hair + 61 Lime thin-layer plaster (finish coat)
Very Fine: 61 Coarse Lime Base Coat with Hair + 61 Lime thin-layer plaster + 66 k Lime Finish Skim Coat

Render Application Exterior: Coarse Lime Base Coat with Hair (ClayTec 21.200) or Lime Base Coat (ClayTec 21.300) should be lightly pre-wetted immediately before application, section by section and not over excessively large areas, using a fine spray mist. Repeat if necessary.

Interior: Clay base coats should be carefully pre-wetted using a fine spray mist until a uniformly dark surface is achieved. For substrate preparation, a slurry of hydrated white lime and fine sand may be thoroughly brushed into the clay using a stiff brush.

Lime thin-layer plaster is applied using ClayTec Japanese trowels or stainless steel finishing trowels. The ideal application thickness is 2–3 mm (e.g., over interior clay base coats or exterior coarse lime renders). A maximum thickness of 3–5 mm is possible (e.g., as a single-layer render on existing clay infill panels).

For timber-frame infill panels, application should proceed from the edge of the panel toward the center, not vice versa. A trowel cut at the beam connection is recommended; a depth of 2–3 mm is sufficient. The beam connection should not be formed as a bevel.

The surface is generally floated. The selected aggregate grading allows for fine felt-textured finishes. The smoother the substrate, the smoother the achievable finish.

Application Temperature Substrate temperature: 5–25 °C

Working Time Maximum 3–4 hours, depending on temperature, render thickness, and substrate absorbency.

Subsequent Treatment To prevent excessively rapid drying, especially in hot or windy conditions, keep the render moist during the first few days, for example by using a garden sprayer with a fine mist.

To protect against frost, provide adequate weather resistance, and ensure color uniformity, the render should be coated with a vapor-permeable finish. Suitable products include frescal (applied to still-moist render) or lime paint (ClayTec 21.525) applied to dry surfaces.
For exterior renders exposed to severe weathering, silicate facade paint is recommended.

Notes **The suitability of the complete render and coating system must always be verified by means of a sufficiently large test application.**

Claims for compensation not resulting from factory mixing errors are excluded.
Subject to changes and errors excepted. Version 2026/5.