

Baunit Klima RK 38

Pure Lime Plaster

■ General Information



- **Cement free**
- **Natural white lime**
- **Internal & external use**

Product Overview

Factory prepared, cement-free, natural white lime dry powder render produced in accordance with EN 998-1. Pure lime plaster for manual and machine application in external and internal areas. Suitable as a base coat and finish coat to achieve a fine texture. Part of the Baunit Klima range of products for healthy living.

Use

- Natural, hydraulic lime plastering mortar for application onto all types of masonry and rough cast concrete in all internal areas including domestic kitchens and bathrooms.
- Suitable as a basecoat and plain finish topcoat in a two coat plaster.
- System or as a basecoat to receive Baunit decorative topcoats, skimming plaster and paints. Baunit Klima RK 38 is not a suitable substrate for receiving tiles.

Properties

- A pure lime plaster which fulfils the physical and biological considerations within the built environment.
- Moderate strength development of the lime binder produces a plaster coating free of stresses.
- A healthier alternative to gypsum or cement based products.
- Suitable for application in wet rooms.
- Resistant to impact loading.
- One material, from the basement to the roof.

Composition

Sand, lime, hydraulic lime and hydraulic additives to improve workability and adhesion.

■ Technical Data

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| Aggregate size:: | 0 – 0.8 mm |
| Compression strength: | 0.4 – 2.5 N/mm ² |
| Water vapour diffusion resistance μ: | approx. 10 |
| Water requirement: | 11 - 12 l/35 kg sack approx. |
| Thermal conductivity λ,10,dry: | ≤ 0.93 W/mK (P = 90%) $\leq 0,83$ W/mK (P = 50%) |
| Capillary water absorption: | W 0 (EN 998-1) |
| TVOC 3d: | < 300 $\mu\text{g}/\text{m}^3$ |
| Formaldehyde 3d: | < 3 $\mu\text{g}/\text{m}^3$ |
| Designation: | CS II (EN 998-1) |
| Yield: | 27 l/35 kg sack approx. |
| Consumption: | 13 kg/m ² /10 mm thickness approx. |



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Health & Safety

A Material Safety Data Sheet is available on request.

Quality Assurance

Continual monitoring and inspection of the quality of all raw materials upon reception. The manufacturer has a TÜV tested and certified Quality Management System in accordance with the international standard EN ISO 9001 and a TÜV tested and certified Environmental Management System in accordance with the international standard EN ISO 14001.

Packaging

35 kg sack, 1 pallet = 36 bags = 1260 kg

Storage

Store in dry conditions and protected on pallets for up to 6 months.

Substrate

- Substrates must be sound, clean, dry, free from frost, dust efflorescence and not water repellent.
- Prepare smooth concrete or very low suction surfaces with a suitable Baumit contact mortar (e.g. Baumit HM 50).
- Prepare mixed masonry substrates and natural stone with a spatterdash coating.
- High suction substrates should be dampened with water using a mist sprayer. Do not saturate aircrete substrates.
- Preparation and levelling coatings must be fully cured, well keyed and compatible with the plaster system.
- Refer to Baumit technical support for further advice regarding substrate preparation.

■ Application

Mixing:

Baumit Klima RK 38 can be mixed with clean water in a tub to a lump free, creamy consistency with an electric hand mixer. Automated continuous horizontal mixers may also be used. For small areas the mixed plaster can be manually applied. For larger areas the fresh plaster can be fed into a mortar pump for spray application. Alternatively, mortar mixing pumps provide an all-in-one mixing and spraying solution.

Basecoat plaster:

The plaster is applied onto the substrate to the required thickness in one or two passes (fresh-in-fresh) depending on the degree of suction from the substrate and ruled off with a straight edge, filling in undulations to produce a flat and even plaster layer.

On hardening the surface is finely floated or finely scraped in preparation for receiving the topcoat. The drying times (1 day/mm thickness) must be observed.

A maximum plaster thickness of 20 mm may be applied in a single application. Where necessary, greater thicknesses must be built up in multiple coats of at least 10 mm in thickness. Upon setting the surface of each additional coat is horizontally keyed with a plasterers comb to receive the following coat. Drying times between each coat (1 day/mm thickness) must be observed.

Topcoat finish:

Baumit Klima RK 38 as a topcoat plaster is applied onto the basecoat and smoothed out flat with a trowel or spatula to a thickness of 3 mm. Shortly afterwards the surface is lightly rubbed over with a fine sponge float in tight circular motions to produce a fine, plain finish. A paint finish may be applied if required.

Baumit Kalkputz Klima Glätt W (lime skim finishing plaster) or Baumit decorative topcoat plasters are also suitable for application onto a basecoat of Baumit Klima RK 38.

Refer to the relevant Product Data Sheets.

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The air, material and background temperature must be above +5° C during application and curing. Where rapid dehydration occurs dampen the finished work at regular intervals with a water mist sprayer. High air humidity and low temperatures can prolong drying times considerably. Protect fresh plaster from direct sunlight.

Protect other materials such as glass, ceramics or metal etc from contamination with appropriate coverings.

Baumit Klima RK 38 is not suitable as a basecoat for receiving tiles due to its low strength < 2 Nmm². Testing for TVOC and Formaldehyde emissions is carried out by the eco-Institut.

Our recommendations for applications which we give to support the purchasers/handlers from our experience, corresponds to current science and practice. The advice is non-binding, and forms no contractual, legal relationship and no additional obligations in the purchase contract. The advice does not release the purchaser from examining our products for their suitability for their foreseen uses. The general rules of construction equipment must be adhered to. We reserve the right to make changes which serve to provide technical progress and improve the product or its use. When such technical information appears, earlier information is no longer valid. You can find the most current information on our Internet pages. Only our current sales and supply conditions as well as provisions for the placement and use of our silos and mixing facilities apply for all business cases.