akurit KGL

Lime smoothing plaster

lime smoothing filler for indoor use

Lightweight plaster mortar LW CS I acc. EN 998-1

- suitable for people with allergies, certified by TÜV Nord
- for smooth and challenging surfaces
- colour: natural white

Applications

- for working over lime, lime cement and cement plasters
- application thickness: at least 1 mm to maximum 3 mm
- total thickness of all layers, maximum 3 mm
- for production of smooth surfaces for painting
- interior plaster for a healthy and balanced room climate
- not suitable as a base plaster for tiles or heavy wall coverings
- for interior use

Properties

- vapour-permeable
- high yield
- smooth and easy to process
- mineral
- good filling power
- seamless texture
- behaviour in fire A1 - non-flammable
- with minimum white cement proportion

Composition

- calcium hydroxide in accordance with DIN EN 459-1
- Minimal white cement content as binder according to DIN EN 197-1
- selected fine marble powder
- additives for regulating and improving workability and product properties

Substrate

Suitable substrates

- Lime or lime cement plasters
- Not suitable for subsurfaces containing gypsum

Condition / Testing

- The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins.
- For assessing the plaster primer, VOB/C DIN 18350, Section 3, DIN EN 13914-1/13914-2 as well as the plaster standard DIN 18550-1/18550-2 should be observed.

Pretreatment

- Evenly wet base plasters that have already dried off.
- Pre-treat primer plaster surface and firm it up if required with AKURIT GTM mineral deep primer.
- Bumps, flaws, gravel pockets and cavities in the area being coated are to be filled evenly with mineral filling compound. Carefully remove ridges and loose parts.

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Processing

Temperature

- Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.

Mixing / Preparing / Processing

- When mixing manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water.
- Use a suitable agitator to mix the material until smooth and free of lumps. Leave to develop for a moment and then mix again.
- Do not mix with other products and/or other substances.

Applying / Processing / Assembling

- Coat base plasters once sufficiently hardened, but at the latest on the following day.
- Apply material with the trowel to fill the surface and pre-smooth it. Cover again when the surface is sufficiently firm and smooth over.
- Apply approx. 1 mm per layer. The maximum total application thickness of all layers must not exceed 3 mm.

Processing time

- Approx. 2 hours at 20°C and 65% relative air humidity
- Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.

Drying / Hardening

- To prevent the plaster from drying out too quickly at higher temperatures, the plastered area should be kept moist for at least three days.

Subsequent coating / workability

- The surface can be finished with wet sanding once it has completely hardened if required.
- The plaster surface must be sufficiently hard and completely dried through before coatings are applied. You must wait at least one day per mm of plaster thickness.
- Lime, silicate, silicone resin and dispersion paints are suitable as a final coat.
- As a subsequent coating for indoors we recommend applying a vapour diffusion permeable, silicate paint, e.g. akurit SanaSil Raum Aktiv.
- Before painting with silicate indoor paint, we recommend applying an undercoat using AKURIT GTM mineral deep primer to harmonise the absorption behaviour.
- When using pure silicate paints, the paint manufacturer's specifications must be observed.
- Light wallpapers and woodchip wallpapers with a coating can be applied as a wall covering.
- The product is not suitable for use under tiles.

Tool cleaning

- Clean all tools and equipment with water immediately after use.

Notes

- Carefully cover adjacent surfaces and components (e.g. windows, window sills, etc.). Wash off contamination immediately with water.

Packaging

- 20 kg/sack

Storage

- Store sacks appropriately and in dry conditions on pallets.
- If stored in its original packaging, the product will keep for at least 12 months from the date of manufacture.

Quantity required / Yield

- consumption: approx. 1 – 2 kg/m² each smoothing layer
- yield: app. 12 l fresh mortar per 20-kg-Bag

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Technical Data

Product type	Lightweight plaster mortar LW
Category	CS I
Water requirement	approx. 10,0 l per 20 kg/sack
Set mortar bulk density	approx. 1.0 kg/dm³
Compressive strength	0.4 - 2.5 N/mm²
Fire behaviour	A1
Adhesive tensile strength	≥ 0.08 N/mm²
Capillary water absorption	W_c0 according to EN 998-1
Water vapour permeability μ	5/20 (table value EN 1745)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=50%	≤ 0.33 W/(mK)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=90%	≤ 0,36 W/(mK)

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

Safety and disposal instructions

Safety

- This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.
- Follow further instructions in the safety data sheet.

GISCODE

- ZP1 (products containing cement, low-chromate)

Disposel

- Dispose of the material in accordance with the official regulations.
- Completely empty and recycle the packaging.
- Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concretewaste and concrete slurries).

General notes

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. Since natural raw materials are used, the values and properties described may vary somewhat. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.