

akurit KSN

Lime filler natural

lime smoothing plaster for indoor use

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

- suitable for people with allergies, certified by TÜV Nord
- attractive felt pattern
- room moisture regulating
- colour: natural white



Applications

- reinforcement plaster with mesh insert on fibreboards for further coating with e.g. allergy-free products
- ridged stopping with mesh insert for base plaster on fibreboards
- one or two-layer felted plaster for working over base plaster on fibreboards
- application thickness at least 5 mm to max. 10 mm
- adhesive mortar for full-surface bonding of wood fibre boards to mineral substrates
- for repair of old loadbearing plaster such as lime, lime cement and cement-lime putty
- for interior use

Properties

- ecological
- suitable for machine application
- smooth and easy to process
- vapour-permeable
- mineral
- high pH-value
- behaviour in fire A1 - non-flammable

Composition

- white cement in accordance with DIN EN 197-1
- calcium hydroxide in accordance with DIN EN 459-1
- crushed angular Jurassic limestone grain
- finely fractionated silica sand
- additives for improving bonding to the subsurface

Substrate

Suitable substrates

- Soft wood fibre interior insulation panel
- Soft wood fibre plaster base
- Lightweight wood wool building panels
- old load-bearing, cement-bonded plasters
- Lime, lime cement or cement base plasters

Condition / Testing

- 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.
- The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins.
- The load-bearing capacity, particularly of old plaster and old paintwork, must be properly tested (e.g. by carrying out a pull-out test or cross-cut test).

Pretreatment

- Pre-treat highly absorbent substrates with akurit GTA acrylate deep primer.
- Bumps in the substrate are to be levelled with suitable plasters or filling compounds.

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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.
- When machine-processing: Adjust the amount of water accordingly to obtain a workable consistency.
- If the work is interrupted for longer periods, then clean the plastering machine and mortar hoses.

Applying / Processing / Assembling

- Apply material to the whole surface with the plastering machine and smooth with appropriate non-rusting tool.
- Apply material over the entire surface using an appropriate, non-rusting tool.
- Do not exceed application thickness of 10 mm.
- Apply material as reinforcement plaster in layer thicknesses from 3 to 10 mm.
- Pull the reinforcement mesh tight and inlay crease-free in the top third of the plaster layer. The individual fabric strips must overlap one another by at least 10 cm and be covered with reinforcement mortar.
- If the plaster is applied in layers, then allow an intermediate standing time of one day per mm of plaster thickness before applying the next layer.
- Apply akurit KSN Kalkspachtel Natur as a bonding mortar on even substrates using the comb bed method and a notched trowel over the entire surface of the back of the board. Pre-fill only as many boards as can be processed in the open time (approx. 10 minutes). In addition, apply a thin layer of akurit KSN Kalkspachtel Natur as an adhesive filler to the substrate. Set the boards fresh in fresh and float in and align them under slight pressure. Do not allow adhesive mortar to enter the panel joints. Ensure that the bonding is free of cavities.

Processing time

- Approx. 60 minutes 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

- The drying and hardening process will be slowed down by low temperatures and/or high air humidity and accelerated by high temperatures and/or low air humidity.

Subsequent coating / workability

- All types of thin-layer mineral finishing plaster may be applied as finish plaster, without priming the subsurface first.
- 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.
- Optimal humidity regulating properties indoors are achieved by using lime or silicate paints.
- As a subsequent coating for indoors we recommend applying a vapour diffusion permeable, silicate paint, e.g. akurit SanaSil Raum Aktiv.
- Suitable as a base plaster beneath ceramic tiles and panels with a weight per unit area of up to 25 kg/m², including adhesive.

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. 1.0 kg/m² per 1 mm application thickness
- yield: app. 20 l fresh mortar per 20-kg-Bag

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Technical Data

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|---|--|
| Product type | Lightweight plaster mortar LW |
| Category | CS II |
| Grain | 0 – 1 mm |
| Water requirement | approx. 6,8 l per 20 kg/sack |
| Set mortar bulk density | approx. 1.2 kg/dm ³ |
| Compressive strength | 1.5 - 5 N/mm ² |
| Fire behaviour | A1 |
| Adhesive tensile strength | ≥ 0.08 N/mm ² |
| Capillary water absorption | W _c 0 according to EN 998-1 |
| Water vapour permeability μ | 5/20 (table value EN 1745) |
| Thermal conductivity λ_{10,dry,mat.} for P=50% | ≤ 0.39 W/(mK) |
| Thermal conductivity λ_{10,dry,mat.} for P=90% | ≤ 0,43 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.
- Specifications regarding the classification and labelling of the product can be found in the safety data sheet at www.quick-mix.de.

GISCODE

- ZP1 (products containing cement, low-chromate)

Disposal

- 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 (concreteste 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.