KGN

Lime smoothing plaster natural

lime smoothing plaster for indoor use
Lightweight plaster mortar LW CS I acc. EN 998-1

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

Applications

- for smoothing KSN lime filler natural
- for smoothing lime, lime cement and cement plasters
- application thickness 1-2 mm per layer
- total layer thickness up to max. 5 mm
- for production of smooth surfaces for painting
- for interior use

Properties

- for a healthy and balanced room climate
- smooth and easy to process
- vapour-permeable
- mineral
- behaviour in fire A1 - non-flammable
- high pH-value
- ecological

Composition

- white cement in accordance with DIN EN 197-1
- calcium hydroxide in accordance with DIN EN 459-1
- additives for improving bonding to the subsurface

Substrate

Suitable substrates

- KSN smoothing plaster as reinforcement plaster
- Lime, lime cement or cement base plasters
- old load-bearing, cement-bonded 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.

Applying / Processing / Assembling

- Apply material over the entire surface using an appropriate, non-rusting tool.
- Apply approx. 1-2 mm per layer.
- Do not exceed application thickness of 5 mm.

Processing time

- approx. 30 minutes
- The stated times apply for a temperature of +20°C and relative humidity of 65%.
- 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

- In the case of indoor surfaces, a suitable coating may be applied.
- 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.

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.
- In interior rooms, start up the heating system slowly to increase the room temperature gradually.

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 – 3 kg/m² each smoothing layer
- yield: app. 22 l fresh mortar per 20-kg-Bag

Technical Data

Product type	Lightweight plaster mortar LW
Category	CS I
Compressive strength	approx. 1.5 N/mm²
Water requirement	approx. 11.0 l per 20 kg/sack
Set mortar bulk density	approx. 1.0 kg/dm³
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%	≤ 0.25 W/(mK)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=90%	≤ 0,27 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.

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