



TECHNICAL DATA SHEET

KEIM NHL-KALKPUTZ-FEIN

1. PRODUCT DESCRIPTION

KEIM NHL-Kalkputz-Fein is a ready-mixed dry mortar according to DIN EN 998-1 based on sand, lime (highly hydraulic lime) and hydraulic additives, as well as additives for better processing and bonding. The strength complies with mortar category CS II or PII in accordance with DIN V 18550.

2. FIELD OF APPLICATION

KEIM NHL-Kalkputz-Fein is a lime-bound fine plaster for manual and machine application and is used as a finishing plaster for interior, exterior and damp areas. KEIM NHL-Kalkputz-Fein also serves as a bonding bridge for subsequently applied lime plasters. KEIM NHL-Kalkputz-Fein is particularly suitable for historical renovation and refurbishment work as well as for biologically oriented residential areas.

It is suitable for use on all common basecoats, but not on:
gypsum renders; plasto-elastic coatings; saponifiable existing substrates

3. PRODUCT PROPERTIES

- excellent application properties
- good machine processability
- sound in terms of building biology
- permeable
- fire behaviour: A2-s1,d0

MATERIAL CHARACTERISTICS:

- Maximum grain size: 0.6 mm

CLASSIFICATION:

- Classification according to: DIN EN 998-1
- Plaster type: GP
- Compressive strength category: CS II 1,5 -5,0 N/mm²
- Test standard compressive strength: DIN EN 1015-11
- Adhesive tensile strength: $\geq 0,08$ N/mm²
- Fracture pattern Adhesive tensile strength: A,B,C
- Test standard Adhesive tensile strength: DIN EN 1015-12
- Water absorption class: W2
- Test standard Water absorption: DIN EN 1015-18
- Water vapour diffusion resistance number (μ -value): ≤ 25

COLOUR SHADES:

natural

4. APPLICATION INSTRUCTIONS

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SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues and must not be too absorbent. Separating substances, e.g. shuttering oil residues on concrete surfaces, must be removed by suitable means. Equalise strong unevenness with suitable material of the same type.

APPLICATION CONDITIONS:

Ambient and substrate temperature ≥ 5 °C during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

PREPARATION OF MATERIAL / MIXING & CONVEYING:

Mix KEIM NHL-Kalkputz-Fein with approx. 7.0 - 8.0 l (specification per bag) of clean water with a power stirrer to a stiff-plastic consistency without lumps and allow to mature briefly. Do not remix already stiffened material with water. Application can be performed by hand, via continuous mixer or rendering machine.

APPLICATION:

KEIM NHL-Kalkputz-Fein is applied with a steel trowel and smoothed through to a good coverage in the first working step.

LAYERING SYSTEM:

When applied as a finishing plaster, the layer thickness is 2 - 5 mm.

When used as a bonding bridge, e.g. on smooth concrete, apply KEIM NHL-Kalkputz-Fein approx. 5 mm thick, roughen well, allow to set for 1-2 days or apply a thin coat of KEIM NHL-Kalkputz-Fein (fine lime plaster) wet-on-wet.

When used as a reinforcement layer, the layer thickness is approx. 6 mm.

REINFORCEMENT:

Apply KEIM NHL-Kalkputz-Fein evenly. Embed KEIM Glasfaser-Gittermatte (mesh), overlap 10 cm at the joints and overcoat wet-in-wet with KEIM NHL-Kalkputz-Fein. Necessary cuts into the mesh are to be covered with an additional fabric strip. The system-specific KEIM Glasfaser-Gittermatte (mesh) should be placed in the upper third and fully embedded. In the corner area of building openings, additionally embed a KEIM Diagonalarmierung.

TOP RENDER:

When using KEIM NHL-Kalkputz-Fein as finishing plaster, the surface can be felted with a sponge board after sufficient consolidation. Free texturing or washing is also possible. Free shaping, free modelling, spraying, slurring and welding off is also possible.

In the base area, use as a finishing plaster only if the presence of water is prevented by a roll of coarse gravel.

AFTERTREATMENT:

KEIM NHL-Kalkputz-Fein must be protected from drying out too quickly due to sun or wind, or kept moist if necessary.

FINISHING:

KEIM NHL-Kalkputz-Fein can be coated with all KEIM paint systems and covered with slabs or tiles. When applying a subsequent coat of KEIM Purkristalat, the layer thickness of 5 mm must be observed in any case. Note: Observe standing times before recoating.

SETTING TIME:

at least 1 day per mm render thickness (depending on temperature and relative humidity). When used as top coat render, allow to set for at least 5 days before coating. (If the standard rule of 1 day per mm results in longer setting times due to the layer thickness, the longer setting time must then be observed before painting).

CONSUMPTION:

approx. 1,2 kg/m² per mm

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

CLEANING OF TOOLS:

Clean tools, machines and mixers immediately after use with water. In hardened state only a mechanical removal is possible.

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5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
25	kg	42	bag

6. STORAGE

max. storage time	Storage conditions
12 months	dry

7. DISPOSAL

For disposal information refer to section 13 of the safety data sheet.

EC WASTE CODE:

Waste code: 17 01 01

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

GISCODE:

GIS code: ZP 1

9. GENERAL INFORMATION

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign additives is not permitted.

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.