



## TECHNICAL DATA SHEET

# KEIM NHL-KALKPUTZ-GROB

## 1. PRODUCT DESCRIPTION

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KEIM NHL-Kalkputz-Grob is a ready-mixed dry mortar according to DIN EN 998-1 based on sand, 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

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KEIM NHL-Kalkputz-Grob is a universal lime-bound exterior and interior plaster for manual and machine application. It can be used as a base and finishing plaster for the entire interior, exterior and damp areas from the cellar to the roof. KEIM NHL-Kalkputz-Grob Suitable for plastering all types of masonry, roughcast concrete, etc. As a finishing plaster, KEIM NHL-Kalkputz-Grob can be used on all common base plasters of mortar category CS II - IV. Particularly recommended for use in building biology-oriented areas or for the renovation of historical buildings.

Not suitable:  
gypsum renders; plasto-elastic coatings; saponifiable existing substrates

## 3. PRODUCT PROPERTIES

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- excellent application properties
- good machine processability
- sound in terms of building biology
- permeable
- fire behaviour: non-flammable (A1)

### MATERIAL CHARACTERISTICS:

- Maximum grain size: 3 mm

### CLASSIFICATION:

- Classification according to: DIN EN 998-1
- Plaster type: GP
- Compressive strength category: CS II 1,5 -5,0 N/mm<sup>2</sup>
- Test standard compressive strength: DIN EN 1015-11
- Adhesive tensile strength:  $\geq 0,08$  N/mm<sup>2</sup>
- 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 ( $\mu$ -value):  $\leq 25$

### 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.

#### PREPARATION OF MATERIAL / MIXING & CONVEYING:

Mix KEIM NHL-Kalkputz-Grob with approx. 6.1 - 6.8 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:

Apply mixed KEIM NHL-Kalkputz-Grob quickly with suitable tools in uniform layer thickness.

#### LAYERING SYSTEM:

The minimum plaster thickness is 5 mm when used as a base coat 10 mm and 5 mm when used as a finishing coat. In the case of plaster thicknesses greater than 20 mm and other unfavourable circumstances, apply in several layers, whereby a sufficient standing time of the base coat is recommended before applying the last layer (roughen previous layers). This is especially important at low temperatures and thus delayed setting! If the substrate is highly absorbent, apply the base coat in two layers – wet on wet.

Note: Masonry with an apparent density of less than 700 kg/m<sup>3</sup> and/or a thermal conductivity of less than 0.13 W/mK must be rendered with LW lightweight plasters (KEIM Porosil lightweight plaster) in accordance with DIN EN 998-1 (formerly DIN V 18550). Use special plaster for base are. When plastering on damp masonry or on a very different plaster base, a multi-layer application of KEIM NHL-Kalkputz-Grob is recommended to reduce the risk of cracking.

#### REINFORCEMENT:

Apply KEIM NHL-Kalkputz-Grob evenly. Embed KEIM Glasfaser-Gittermatte (mesh), overlap 10 cm at the joints and overcoat wet-in-wet with KEIM NHL-Kalkputz-Grob. 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-Grob as finishing plaster, the surface can be felted with a sponge board after sufficient consolidation. Free texturing or washing is also possible.

#### AFTERTREATMENT:

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

#### FINISHING:

KEIM NHL-Kalkputz-Grob can be coated with all KEIM paint systems and covered with slabs or tiles. All KEIM finishing renders are suitable for overcoating KEIM NHL-Kalkputz-Grob with KEIM Purkristalat. When applying a subsequent coat of KEIM Purkristalat, always observe the minimum layer thickness of 5 mm. 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. 1,3 kg/m<sup>2</sup> 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.

## TECHNICAL DATA SHEET – KEIM NHL-KALKPUTZ-GROB

### 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.



KEIMFARBEN GMBH

Keimstraße 16 / 86420 Diedorf / Tel. +49 821 4802-0 / Fax +49 821 4802-210  
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 35456 676-0 / Fax +49 35456 676-38  
www.keim.com / info@keimfarben.de