



## TECHNICAL DATA SHEET

# KEIM NHL-KP 3.0

## 1. PRODUCT DESCRIPTION

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KEIM NHL-KP 3.0 is a ready-mixed dry mortar in accordance with DIN EN 998-1 based on sand, with a hydraulic and carbonate-binding mixture of lime and hydraulic additives. Its strength corresponds to mortar category CS II.

## 2. FIELD OF APPLICATION

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KEIM NHL-KP 3.0 is a universal lime-based exterior and interior plaster for manual and machine application. It can be used as a base coat and finish coat for all interior, exterior and damp areas from the basement to the roof. KEIM NHL-KP 3.0 is suitable for plastering all types of masonry, rough-formed concrete, etc. As a finishing plaster, KEIM NHL-KP 3.0 can be used on all standard base coats in mortar categories CS II - IV. It is particularly recommended for use in building biology applications or for the renovation of historic buildings

## 3. PRODUCT PROPERTIES

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

### MATERIAL CHARACTERISTICS:

- Maximum grain size: 3 mm

### CLASSIFICATION:

- Water absorption class: W2
- Standard Water absorption: DIN EN 1015-18
- Thermal conductivity  $\lambda_{10}$ , dry, mat for P=50%: 0.82 W/(mK)
- Thermal conductivity  $\lambda_{10}$ , dry, mat for P=90%: 0.89 W/(mK)
- Water vapour diffusion resistance value ( $\mu$ -value):  $\leq 25$
- Compressive strength category: CS II (1,5 – 5,0 N/mm<sup>2</sup>)
- Standard compressive strength: DIN EN 1015-11
- Adhesive tensile strength:  $\geq 0,08$  N/mm<sup>2</sup>
- Standard Adhesive tensile strength: DIN EN 1015-12
- Fracture pattern Adhesive tensile strength: A,B,C
- Classification according to: DIN EN 998-1
- Plaster type: GP

### 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. Strongly sanding or unevenly absorbent surfaces must be primed with KEIM Fixativ. Observe the technical data sheet of the primer with regard to application and dilution.

Non-suitable substrates:

gypsum renders; plasto-elastic coatings; saponifiable existing substrates

#### APPLICATION CONDITIONS:

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

Mix KEIM NHL-KP 3.0 with approx. 6.1 L - 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.

##### 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.

##### APPLICATION:

Apply the mixed KEIM NHL-KP 3.0 quickly with a suitable tool in an even layer thickness.

##### LAYERING SYSTEM:

The minimum plaster thickness is 10 mm when used as a base coat and 5 mm when used as a top coat. For plaster thicknesses of more than 20 mm and other unfavourable circumstances, apply multiple coats, whereby it is recommended that the base coat be allowed sufficient time to set before applying the final coat (roughen previous coats). This is particularly important at low temperatures, which delay setting! On highly absorbent substrates, apply the base coat in two layers – wet on wet.

Note: Masonry with a bulk density of less than 700 kg/m<sup>3</sup> and/or a thermal conductivity of less than 0.13 W/mK must be plastered with lightweight plasters LW (KEIM Porosil lightweight plaster) in accordance with DIN EN 998-1 (formerly DIN V 18550). Use special base plasters in the base area. When plastering damp masonry or a highly varied plaster base, a multi-layer application of KEIM NHL-KP 3.0 is recommended to reduce the risk of cracking.

##### MOISTURE PROTECTION:

##### TOP RENDER:

When using KEIM NHL-KP 3.0 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-KP 3.0 must be protected from drying out too quickly due to sun or wind, or kept moist if necessary.

##### FINISHING:

KEIM NHL-KP 3.0 can be coated with all KEIM coating systems and covered with panels or tiles. All KEIM finishing plasters/covering plasters are suitable for recoating KEIM NHL-KP 3.0. When recoating with KEIM Purkristalat, a minimum layer thickness of 5 mm must be observed in all cases. Note: Observe the drying 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).

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### CLEANING OF TOOLS:

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

## 5. PACKAGING

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

## 6. STORAGE

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| max. storage time | Storage conditions |
|-------------------|--------------------|
| 12 months         | dry                |

## 7. DISPOSAL

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

Waste code: 17 01 01

## 8. SAFETY INSTRUCTIONS

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Please, refer to the Material Safety Data Sheet.

GISCODE: ZP 1

## 9. GENERAL INFORMATION

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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.



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