



## TECHNICAL DATA SHEET

# KEIM NHL KALKPUTZ FINE

## 1. PRODUCT DESCRIPTION

KEIM NHL Kalkputz Fine is a dry bagged lime render manufactured to DIN EN 998-1, based on sand, lime (white lime, highly hydraulic natural lime) and hydraulic additives, with additives for improved processing and adherence.

## 2. FIELD OF APPLICATION

KEIM NHL Kalkputz Fine is a lime bound fine render for manual and machine application, used as a topcoat render for interior, exterior and damp areas. It can be used on any conventional renders, but not on gypsum based, plasto-elastic or saponifiable substrates.

KEIM NHL Kalkputz Fine acts as a bonding bridge for subsequently applied lime renders and is particularly suitable for historic renovation, remediation work and for low environmental impact residential applications.

## 3. PRODUCT PROPERTIES

The strength complies to mortar category CSII or II as per DIN V 18550.

- Grain size: 0 – 0.6mm
- Low environmental impact
- Good machine application
- Particularly easy to apply
- Wide variety of textures
- Water-repellent
- Good adherence

### Material characteristics to DIN EN 998-1

Compressive strength: 1.5–5.0N/mm<sup>2</sup>, CS II  
Flammability: A1  
Water vapour permeability  $\mu$  approx. 10  
Water absorption: W2  
Tensile bond strength:  $\geq 0.08\text{N/mm}^2$

Thermal conductivity:

$$\lambda_{10, \text{dry}}: \leq 0.83\text{W}/(\text{mK}) \text{ for } P = 50\% \\ \leq 0.93\text{W}/(\text{mK}) \text{ for } P = 90\%$$

## 4. APPLICATION INSTRUCTIONS

### Substrate preparation

All loose, flaking and unstable material must be identified and then thoroughly removed using stiff brushes and broad bladed scrapers to get back to a sound edge; these edges should then be feathered in. Ensure that any paint materials left remaining and the underlying substrate is sound and adhering well. Any gloss or shiny surfaces should be thoroughly flatted down using sand or emery paper to create a good key.

Absorbent substrates should be pre-wetted.

Particularly friable undercoat renders need to be solidified by a pre-treatment with KEIM Fixativ (diluted with clean cold water using a ratio of 1:1).

When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, rendering using KEIM NHL Kalkputz Fine may proceed.

### Application

KEIM NHL Kalkputz Fine should be applied as a topcoat render, with a minimum thickness of 2mm and maximum thickness 5mm. KEIM NHL Kalkputz Fine should be applied with a steel trowel and in the first stage smoothed to a good opaque finish. Once solidification has begun, the final texture can be applied.

KEIM Glassfibre Reinforcing Mesh may be incorporated with KEIM NHL Kalkputz Fine if so required.

### Application conditions

Ambient and substrate temperature above 5°C and below 30°C. Do not apply in direct sunlight or onto sun-heated surfaces, nor if it is raining or if there is an immediate likelihood of rain.

### Drying times

A setting time of at least one day per mm render thickness is required before further coating, followed by a further 10 days. High air humidity and low temperatures can extend the setting time. For thin layer applications or where the drying process is excessively fast the finished render surface should be remoistened as required.

### Finishing

KEIM NHL Kalkputz Fine can be coated with any thin layer KEIM finishing render and any KEIM coating system.

### Consumption

1.2kg per square metre per mm thickness.

Please note that these consumption rates are offered for guideline purposes only and should more accurate measures be required then site trials must be conducted.

### Cleaning of tools

Clean immediately after use with water.

## 5. PACKAGING

25 kg sacks

## 6. STORAGE

Shelf life is approx. 12 months if kept dry, cool, but frost-free. Protect from moisture.

## 7. DISPOSAL

EC Waste Code No. 10 13 99

Any residues must be emptied out of containers before recycling.

## 8. SAFETY INSTRUCTIONS

Lime has an alkaline action in combination with water. Cover surfaces which are not to be painted, in particular glass, natural stone, ceramics etc. Protect the eyes and skin from splashes. Keep out of reach of children.

Please, refer to the EC Material Safety Data Sheet

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 those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with. We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.

