



## TECHNICAL DATA SHEET

# KEIM SILEX<sup>®</sup>-OH-100

## 1. PRODUCT DESCRIPTION

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Clear and solvent-free solidifying agent based on silicic acid ester (OH = without water repellent). KEIM Silex-OH-100 penetrates deep into the pores of the building material due to its very good creeping ability. The silicic acid ester reacts chemically with the normal building material and air humidity to form silica gel and alcohol. The reaction time generally takes 4 weeks. After this time, only silica gel is present in the building material, the alcohol has evaporated. The mineral gel precipitation causes good consolidation of the previously friable building material without impairing the water vapour permeability.

## 2. FIELD OF APPLICATION

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KEIM Silex-OH-100 Can be used on all porous mineral substrates.

KEIM Silex-OH-100 is particularly suitable for the reconsolidation of leached sandstone zones.

## 3. PRODUCT PROPERTIES

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- highly substrate-solidifying
- good penetration property
- solvent-free
- low-odour

### MATERIAL CHARACTERISTICS:

- |                              |                                     |
|------------------------------|-------------------------------------|
| - Density:                   | approx. 0.9 - 1.1 g/cm <sup>3</sup> |
| - Active ingredient:         | solvent-free silicic acid ester     |
| - Active ingredient content: | 100 %                               |
| - Gel separation:            | approx. 40 %                        |

### COLOUR SHADES:

colourless

## 4. APPLICATION INSTRUCTIONS

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### SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues. In addition, the building material surface must be open-pored. Hard natural stone crusts should be removed if possible.

### APPLICATION CONDITIONS:

Ambient and substrate temperature  $\geq 5$  °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.

### APPLICATION:

The surfaces to be treated are soaked several times with KEIM Silex-OH-100 with a brush or by flooding (do not spray) at intervals of approx. 10 min. until a noticeable saturation occurs. Dab off any excess KEIM Silex-OH-100 immediately, otherwise crusts or grey haze will form. Crusting or peeling can also occur if too little is applied, i.e. if the morbid zone is not penetrated to the healthy core.

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### FINISHING:

Due to the relatively long reaction time of KEIM Silex-OH-100, certain waiting times must be observed for subsequent reworkings, because the treated surface only becomes well water-wettable again after the reaction has ended.

Minimum waiting time 10 days for:

- Hydrophobing with KEIM Lotexan-N and KEIM Silangrund
- Glaze coats with KEIM Restaurolasur
- Covering coats with KEIM Granital

Minimum waiting time 3 weeks for:

- KEIM Restaurolasur Stone Complements
- Covering and glazing coats with KEIM Purkristalat, KEIM decorative paints and KEIM Künstlerfarben (Artists' Paints)
- Mineral plasters

### DRYING TIME:

At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

### CONSUMPTION:

approx. 0,5-5 l/m<sup>2</sup>

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 immediately with water.

## 5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
5	l	80	metal canister

## 6. STORAGE

max. storage time	Storage conditions
12 months	cool frost-free keep container tightly sealed. dry

### STORAGE INFORMATION:

The ingress of moisture must be avoided at all costs, otherwise gel formation will occur.

## 7. DISPOSAL

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

### EC WASTE CODE:

Waste code: 07 01 99

## 8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

### 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.