



## TECHNICAL DATA SHEET

# KEIM SILEX OH

## 1. PRODUCT DESCRIPTION

KEIM Silex OH is an ethyl silicate stone consolidant which can be over coated.

## 2. FIELD OF APPLICATION

KEIM Silex OH can be used for consolidation of any porous mineral substrate including natural stone, sandstone and render.

## 3. PRODUCT PROPERTIES

KEIM Silex OH penetrates deep into the pores of building materials. Once the solvent content has evaporated, the silicate reacts chemically with the moisture naturally present in the building material and atmospheric humidity to form silica gel and alcohol. This reaction time generally takes three weeks.

After this period, only the silica gel remains in the building material. Deposition of the mineral gel consolidates the building material without impairing water vapour permeability.

KEIM Silex OH has no water shedding capabilities.

### Material characteristics

Density:  $Q = 0.992\text{g/cm}^3$

Flash Point:  $2^\circ\text{C}$

### Colour shades

Colourless

## 4. APPLICATION INSTRUCTIONS

### Substrate preparation

All loose, flaking and unstable material must be identified and then thoroughly removed, all surfaces must be thoroughly washed down with clean cold water to remove all surface dirt and dust. When all surfaces are clean, sound, wind dry, dust free and free from all surface

contaminants, decoration using KEIM Silex OH may proceed.

### Application

This skilled procedure requires the repeated application of KEIM Silex OH until the stone can absorb no further materials (i.e. is fully saturated). Excess material should be blotted off using clean, dry, lint free cloths. Surfaces should be left for a minimum period of 14 days prior to any further treatment. Please note this is a minimum time period and may need to be extended until surfaces are fully consolidated.

### Application conditions

Ambient and substrate temperature above  $5^\circ\text{C}$  and below  $30^\circ\text{C}$ . 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.

### Consumption

The quantity of KEIM Silex OH required for consolidation is highly dependent on pore volume and the depth of the unsound zone of the building material, ranging from  $0.5\text{lt/m}^2$  to  $5\text{lt/m}^2$ , or more in extreme cases.

Consumption rates are offered for guideline purposes only and are quoted for smooth surfaces. Actual rates are the responsibility of the applicator. Project specifications should be referred to for specific rates.

### Cleaning of tools

Clean immediately after use with water.

## 5. PACKAGING

5 lt containers

## 6. STORAGE

Approx. 12 months, if kept cool but frost free in tightly closed containers. Store dry, do not expose

to direct heat. After use, cans must be closed properly to prevent penetration of moisture.

### 7. DISPOSAL

EC Waste Code No. 07 01 99

Any residues must be emptied out of containers before recycling.

### 8. SAFETY INSTRUCTIONS

If used on internal surfaces, ensure sufficient ventilation. Keep away from ignition sparks and sources, do not smoke. Do not inhale spray dust.

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.

