

KEIM Silangrund (Silane-based primer)



1. Product description

Water-repellent, silane-based primer in an alcoholic solution (ready-to-use).

2. Field of application

KEIM Silangrund is suitable for providing a water-repellent finish, in addition to any paint finish, on mineral, porous concrete surfaces exposed to severe water loads or such surfaces which are moisture-sensitive.

Surfaces exposed to severe water loads are e.g. the weather sides of high-rise structures (wind pressure), buildings in coastal regions or on islands, bridges, horizontal or slightly inclined areas, areas exposed to splashing adjacent to sidewalks or streets (deicing salt solutions).

Highly moisture-sensitive surfaces are e.g. facades with cracked renders, autoclaved lightweight concrete (ALC), fair-faced brick and limestone masonry (intrinsic salt content), natural stone containing iron salts (brownish discolouration), poor quality concrete surfaces (shrinkage cracks).

3. Product properties

KEIM Silangrund penetrates into the pores and any hairline cracks of the mineral building materials. After evaporation of the solvent, the active component is deposited on the walls of the pore and, once subsequently coated with a KEIM silicate-based, single-component paint system, develops its water-repellent characteristics.

This treatment does not seal the pores of the building material, which means that its water vapour permeability remains virtually unchanged.

Material characteristics

- Physical form: colourless liquid
- Density: approx. 0.8 g/cm³
- Flashpoint: 4°C

4. Application instructions

For treatment with KEIM Silangrund, the surface of the building material must be open-pored, clean, dust-free and dry. The surfaces to be treated are soaked to saturation twice wet-on-wet with an interval of approx. 10 minutes with KEIM Silangrund using a brush or, better, by flooding (do not spray).

Application conditions

From +5°C up to a max. substrate temperature of 25°C or a max. air temperature of 30°C. Avoid direct sunlight and exposure to strong wind.

Note

In order to ensure optimum development of water-repellency, KEIM Silangrund should, once the alcohol solvent has evaporated, be overcoated as soon as possible (after approx. 4 hours) with a suitable KEIM priming coat.

Depth of penetration

A minimum depth of penetration of 2 mm is necessary in order to achieve effective water-repellency.

Consumption

In order to achieve this minimum depth of penetration, different quantities of KEIM Silangrund are required in different building materials due to their differing pore volumes:

| | |
|------------|----------------------------|
| Concrete: | 0.2 - 0.3 l/m ² |
| Render: | 0.4 - 0.6 l/m ² |
| ALC: | 0.6 - 0.8 l/m ² |
| Sandstone: | 0.4 - 0.8 l/m ² |
| Brick: | 0.4 - 0.6 l/m ² |
| Limestone: | 0.3 - 0.5 l/m ² |

The stated consumption figures are guide values. Exact values can only be determined by applying trial areas on the structure to be coated.

Cleaning of tools

In a bucket of water with a few drops of detergent. Rewash under running water.

5. Packaging

5 l and 25 l containers.

6. Storage

Shelf life is approx. 12 months under cool and dry conditions. Protect from heat and direct sunlight. Always carefully seal opened containers. It is essential to avoid contact with moisture.



7. Hazardous substances ordinance class

- F Highly flammable
- R 11: Highly flammable.
- S 9: Keep container in a well-ventilated place.
- S 16: Keep away from sources of ignition - No smoking.
- S 33: Take precautionary measures against static discharges.

8. Transport hazard class

Class: 3
Packaging group: II
UN-No.: 1993

9. Disposal

EC Waste Code No. 08 01 11
 Any residues must be emptied out before recycling.

10. Safety instructions

Provide appropriate protection for surfaces which are not to be treated (e.g. glass, natural stone, ceramics, wood etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

When using in confined spaces, keep container tightly closed. Keep away from sources of ignition. Protect the eyes and skin from splashes. Do not eat, drink or smoke during application. Keep out of reach of children.

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.

