



TECHNICAL DATA SHEET

KEIM SILAN 100

1. PRODUCT DESCRIPTION

KEIM Silan 100 is a solvent free, silane-based water repellent for use on all mineral substrates, particularly suitable for concrete, where carbonation resistance is required.

2. FIELD OF APPLICATION

KEIM Silan 100 is used to provide a water repellent finish on mineral building materials especially concrete. Complies with requirements for concrete protection.

KEIM Silan 100 is ideal where surfaces are exposed to de-icing salts and to protect reinforcing steel from chloride corrosion due to salt penetration.

KEIM Silan 100 can be used as a priming coat prior to subsequent applications of the KEIM Mineral Paint systems, or as a stand-alone water repellent finish.

3. PRODUCT PROPERTIES

Solvent-free alkylalkoxysilane, active component content 100%

Material characteristics to DIN EN 1504-2/1.1, 2.1, 8.1 Hydrophobising Impregnation

Penetration depth: class II: $\geq 10\text{mm}$

Water absorption and alkali resistance:
absorption coefficient:

< 7.5% compared to untreated sample

< 10% in alkali solution

Drying rate: class I: > 30%

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 Mineral Paints may proceed.

Application

KEIM Silan 100 should be applied as two wet-on-wet flood coats or as a single flood coat, by brush or low-pressure spray. If required, within a period of up to twelve hours, and these times are critical, the first coat of KEIM Mineral Paints must be applied.

Non-absorbent surfaces cannot be treated with KEIM Silan 100.

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.

Cleaning of tools

Clean immediately after use with solvent.

Consumption

0.2lt/m² for one coat, 0.3lt/m² for two coats.

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.

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

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.

Goggles and face masks to be worn. Provide adequate ventilation especially in confined spaces. Avoid ingestion. Do not smoke when applying.

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.

