



## KEIM® Silan-100

### 1. Product description

Solvent-free, silane-based water repellent to ZTV-SIB 90 OS-A.

### 2. Field of application

KEIM® Silan-100 is used to provide a water-repellent finish on mineral building materials, in particular concrete, in exterior applications. KEIM® Silan-100 may in particular be used where structures are exposed to deicing salts and to protect reinforcing steel from chloride corrosion due to salt penetration and as a priming coat prior to subsequent applications of KEIM Concretal®-Farbe, KEIM Concretal®-Lasur or KEIM Concretal®-Farbe-AY-Plus as additional water-proofing on exposure to severe weathering stress.

KEIM® Silan-100 is applied onto concrete as the sole water-repellent finish in accordance with OS-A of ZTV-SIB 90 or OS 1 of Rili-SIB (guidelines for the protection and renovation of concrete components published by the German committee on steel reinforced concrete (DAfStb)).

KEIM® Silan-100 is used as a primer in accordance with OS-B and OS-C of ZTV-SIB 90 or OS 2 and OS 4 of Rili-SIB together with KEIM Concretal®-Farbe-AY-Plus.

KEIM® Silan-100, with subsequent coats of the KEIM Concretal® system, may be used to provide Rili-SIB grade W (water-proof) surface protection.

### 3. Product properties

Solvent-free isobutyltriethoxysilane, active component content 100%

#### Technical data

Density approx. 0.88 g/cm<sup>3</sup>

Flash point approx. 63°C

### 4. Application instructions

KEIM® Silan-100 is ready-to-use and is applied to saturation by flooding with a low-pressure spray or by soaking with a brush.

Application may be repeated after approx. 4 hours to 1 day in order to enhance the effect, for example in the

case of exposure to extremely severe weathering or deicing salt stress.

KEIM® Silan-100 reacts with the moisture in the concrete, forming in conjunction with alkalinity a water-repellent zone.

KEIM® Silan-100 may be overcoated after approx. 4 hours to 1 day with coats of the Concretal® system or may be used as the sole water-repellent finish.

Water absorption is reduced to approx.  $W_{24} = 0.06 \text{ kg/m}^2\sqrt{\text{h}}$ . Interfacial surface tension visible on the surface of the building material is formed only on alkaline substrates.

Water vapor diffusion is not impeded.

### Application conditions

From +5°C up to a maximum substrate temperature of 25°C or a maximum air temperature of 30°C.

Equipment and tools must be clean and dry. It is essential to avoid contact with water before application.

The surface of the building material must be clean, dry and absorbent and may have to be cleaned beforehand.

The quantity to be applied by flooding depends on the absorbency of the concrete (apply onto trial area).

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

Avoid direct sunlight and exposure to strong wind.

### Consumption

0.17 - 0.2 liter/m<sup>2</sup>, approx. 0.3 liter/m<sup>2</sup> with two applications. Precise consumption values must be determined on the object being treated.

### Cleaning of tools

On completion of work with white spirit, gasoline etc..

### 5. Packaging

5 liter and 25 liter containers

### 6. Storage

Storage life 12 months. Carefully seal opened containers. Store under cool, dry conditions. Prevent moisture penetration.



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## **7. Hazardous Substances Ordinance class**

Xi Irritant contains isobutyltriethoxysilane  
R38: Irritating to the skin  
S24: Avoid contact with the skin

## **8. Classification according to Flammable Liquids Ordinance**

A III

## **9. Disposal**

EC Waste Code no. 07 02 17  
Any residues must be emptied out of containers before recycling.

## **10. Safety instructions**

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

Protect the eyes and skin from splashes. When using in confined spaces, keep container tightly closed. Keep away from sources of ignition - No smoking.

Comply with safety data sheet.  
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 supercedes all earlier editions.