



## TECHNICAL DATA SHEET

# KEIM CONCRETAL®-C

## 1. PRODUCT DESCRIPTION

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Solsilicate acrylic concrete protection paint according to ZTV-ING OS-B, OS-C and according to DIN EN 1504-2/1.3, 2.2, 8.2.

## 2. FIELD OF APPLICATION

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Use of KEIM Concretal-C on concrete in combination with KEIM Silan-100 according to OS-B of ZTV-ING or OS 2 of Rili-SIB (Guideline for Protection and Repair of Concrete Structures, German Committee for Reinforced Concrete). In combination with KEIM Concretal-Feinspachtel, use according to OS-C of ZTV-ING or OS 4 of Rili-SIB. In case of very heavy weather or de-icing salt exposure, the filler surface can be additionally treated with KEIM Silan-100.

Not suitable for:

horizontal and inclined surfaces exposed to weathering

## 3. PRODUCT PROPERTIES

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- mineral matt
- highly permeable
- protects concrete against aggressive, atmospheric pollutants
- acts as an enhanced carbonation protection
- protection against chloride contamination

### MATERIAL CHARACTERISTICS:

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|--|-------------------------------------|
| - Density:   | approx. 1,3 - 1.5 g/cm <sup>3</sup> |
| - pH value:  | approx. 8,6                         |
| - Colour fastness (Fb-code pursuant to BFS Leaflet No. 26):      | A1                                  |
| - Peel strength TNorm:   | 2,6 (2,2) N/mm <sup>2</sup>         |
| - Carbonation resistance sd (CO <sub>2</sub> ):                  | approx. 350 m                       |
| - Water vapour diffusion resistance class sd (H <sub>2</sub> O): | Klasse 1                            |
| - Peel strength F-T-change:                                      | 2,0 (1,5) N/mm <sup>2</sup>         |

### CLASSIFICATION:

- |                                   |                              |
|-----------------------------------|------------------------------|
| - Water absorption coefficient w: | ≤ 0,1 kg/(m <sup>2</sup> √h) |
|-----------------------------------|------------------------------|

### COLOUR SHADES:

White, colour shades only with purely mineral, light-resistant pigments.

## 4. APPLICATION INSTRUCTIONS

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### SUBSTRATE PREPARATION:

The substrate must be dry, load-bearing, clean and free from all loose particles, dust, oil and other separating substances.

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### APPLICATION CONDITIONS:

Ambient and substrate temperature during application and drying from  $\geq 5\text{ °C}$  to  $\leq 30\text{ °C}$ . Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

### APPLICATION:

KEIM Concretal-C can be painted, rolled or airless sprayed (nozzle  $\geq 423$  ).

At least 2 coats are always required. Untreated concrete surfaces must be pretreated with KEIM Silan-100 according to ZTV-ING OS-B.

### DRYING TIME:

Surface dry after 6 hours at the earliest (at  $23\text{ °C}$  and 50% relative humidity) Can be overcoated after 12 hours at the earliest (at  $23\text{ °C}$  and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly. After pre-treatment with KEIM Silan 100, the primer coat must be applied after approx. 4 - 24 hours, after KEIM Silangrund after approx. 4 hours.

### CONSUMPTION:

approx.  $0,3\text{ kg/m}^2$  for two coatings.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

### DRY FILM THICKNESS:

approx.  $150\text{ }\mu\text{m}$

with application of at least  $0.3\text{ kg/m}^2$  on level substrate

### CLEANING OF TOOLS:

Clean immediately with water.

## 5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
20	kg	24	bucket
5	kg	70	bucket

## 6. STORAGE

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

## 7. DISPOSAL

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

### EC WASTE CODE:

EC WASTE CODE: 08 01 12

## **8. SAFETY INSTRUCTIONS**

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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.

## **10. CERTIFICATES & QUALITY SEALS**

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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.