TECHNICAL DATA SHEET

KEIM CONCRETAL®-C

1. PRODUCT DESCRIPTION

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. KEIM Concretal-C has been awarded Cradle to Cradle Certified® Full Scope Silver, Material Health Gold and Circularity Silver in accordance with Version 5.0.

2. FIELD OF APPLICATION

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-FSP 0.2, 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.

3. PRODUCT PROPERTIES

- Cradle to Cradle Certified® Full Scope Silver (Version 5.0)
- Cradle to Cradle Certified® Material Health Gold (Version 5.0)
- Cradle to Cradle Certified® Circularity Silver (Version 5.0)
- mineral matt
- permeable
- Protection of concrete against atmospheric effects (EN 1504-2:2004)
- acts as an enhanced carbonation protection
- protection against chloride contamination

MATERIAL CHARACTERISTICS:

– Density	approx. 1.3 g/cm³ - 1.5 g/cm³
– pH value	approx. 8,6
– Colour fastness (Fb-code pursuant to BFS Leaflet No. 26)	A1
– Abreißfestigkeit TNorm	2,6 (2,2) N/mm²
– Carbonation resistance sd (CO2)	approx. 350 m
– Water vapour diffusion resistance class sd (H2O)	Class 1
– Peel strength F-T-change	2,0 (1,5) N/mm²

CLASSIFICATION:

– Water absorption coefficient w	≤ 0,1 kg/(m²√h)

COLOUR SHADES:
White and colour shades are produced exclusively with purely mineral, lightfast pigments.

4. APPLICATION INSTRUCTIONS

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

Non-suitable substrates:
substrates with salt efflorescences; horizontal and inclined surfaces exposed to weathering; wood substrates; plasto-elastic coatings; saponifiable existing substrates; non-wettable substrates

APPLICATION CONDITIONS:
The air and substrate temperature must be between ≥ 5 °C and ≤ 30 °C during application and drying. Do not apply in direct sunlight or on substrates heated by the sun. Protect surfaces from direct sunlight, wind and rain during and after application.

MATERIAL PREPARATION:

CONSUMPTION:
approx. 0,30 kg/m² for two coatings.
The information on material consumption is a guide for smooth substrates. Exact consumption figures must be determined by carrying out test areas.

PROCESSING:
KEIM Concretal-C can be painted, rolled or airless sprayed (nozzle ≥ 423).
At least 2 coats are always required. Untreated concrete surfaces must be pretreated with KEIM Silan-100 according to ZTV-ING OS-B.

TOP COAT:

PAINT STRUCTURE:

DRYING TIME:
Surface dry after 6 hours at the earliest (at 23 °C and 50% relative humidity) Can be overcoated after 12 hours at the earliest (at 23°C and 50% RH). At higher relative humidity, greater layer thicknesses or lower temperatures, the drying time is extended accordingly. After pre-treatment with KEIM Silan 100, the primer coat must be applied after approx. 4 - 24 hours, after KEIM Silan-Primer after approx. 4 hours.

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

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

7. DISPOSAL

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

Waste code: 08 01 12

8. SAFETY INSTRUCTIONS

Refer to the safety data sheet. EU limit value for this product (Cat. A/a): 30 g/l; (Cat. A/c): 40 g/l.
This product contains: 0 - 10 g/l VOC.

GIS code: BSW 20

9. GENERAL INFORMATION

Cover surfaces not to be treated, particularly glass, ceramics and natural stone. Splashes on surrounding surfaces or traffic areas must be immediately diluted with plenty of water and removed.
Mixing with products from other systems or other external additives is not permitted.

10. CERTIFICATES & QUALITY SEALS

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.

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