



## TECHNICAL DATA SHEET

# KEIM CONCRETAL<sup>®</sup>-LASUR

## 1. PRODUCT DESCRIPTION

---

Thin-film paint for concrete on sol-silicate basis for glazed design when diluted with KEIM Concretal-Fixativ or for covering thin-film protective coats. Application in accordance with DIN EN 1504-2/2.2 together with KEIM Silan-100. KEIM Concretal-Lasur is awarded with Cradle to Cradle Certified<sup>®</sup> Silver and C2C Certified Material Health Certificate<sup>™</sup> Gold.

## 2. FIELD OF APPLICATION

---

For the glazed design of exposed concrete surfaces in exterior and interior areas, e.g. preservation of the character of exposed concrete when glazing over stains or repair areas in the concrete shade as well as coloured glazed designs when diluted according to requirements with KEIM Concretal-Fixativ.

Or:

For opaque thin-layer coatings when maintaining the surface structure with protective function as preventive water protection and weathering protection. To further strengthen the water protection function, a hydrophobic substrate pre-treatment with KEIM Silangrund or KEIM Silan 100 can be applied. When applied together with KEIM Silan-100, the water protection requirements in accordance with DIN 1504-2/2.2 are complied with. KEIM Concretal-Lasur also complies with the requirements of DIN 18363 Section 2.4.1 for dispersion silicate paints.

Not suitable for:

horizontal and inclined surfaces exposed to weathering

## 3. PRODUCT PROPERTIES

---

- C2C Certified Material Health Certificate<sup>™</sup> Gold
- protects concrete against aggressive, atmospheric pollutants
- protection against weather influences

### MATERIAL CHARACTERISTICS:

- Density: approx. 1,1 - 1.3 g/cm<sup>3</sup>
- Organic content: < 5 %
- pH value: approx. 11
- Colour fastness (Fb-code pursuant to BFS Leaflet No. 26): A1

### CLASSIFICATION:

- Diffusion-equivalent air layer thickness (sd-value): < 0,02 m

### COLOUR SHADES:

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

## 4. APPLICATION INSTRUCTIONS

---

### SUBSTRATE PREPARATION:

The substrate must be dry, sound, clean and free of any loose material, dust, oil and other substances with a separating effect. Defective, existing organically bound coats must be completely removed. In case of new concrete structures, any shuttering oil residues must be removed with KEIM Betonschnellreiniger (concrete cleaner). Clean, strong concrete requires no pretreatment. Highly absorbent substrates or surfaces exposed to severe weather may be provided with a water-repellent,

## TECHNICAL DATA SHEET – KEIM CONCRETAL®-LASUR

hydrophobic treatment. The subsequent base coat with KEIM Concretal-Lasur is to be applied after approx. 4 hours in the case of KEIM Silangrund and after 4 to 24 hours in the case of KEIM Silan-100. Soft, porous concrete surfaces or existing mineral coatings may be stabilised by performing a pretreatment with KEIM Concretal-Fixativ

### 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.

### CONSUMPTION:

For two opaque coats: approx.  $0.25\text{ l/m}^2$  KEIM Concretal-Lasur and approx.  $0.04\text{ l/m}^2$  KEIM Concretal-Fixativ

For two coats of translucent paint: depending on degree of dilution, must be determined by trial coating.

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

### APPLICATION:

Glazing coat:

In exterior areas, two glazing coats with a brush are usually required due to the requirement for weather resistance. For priming and finishing coat, KEIM Concretal-Lasur with KEIM Concretal-Fixativ or KEIM Concretal-Base can be diluted in any ratio depending on the desired glaze effect. To determine the dilution ratio, it is recommended to apply test coats. Stir the diluted KEIM Concretal-Lasur well before and during work. Water and other materials must not be added.

Note: The system components KEIM Concretal-Lasur, Concretal-Base and Concretal-Fixativ can be mixed in any ratio. KEIM Concretal-Base leads to a beautiful transparency with ideal application consistency and layer thickness. KEIM Concretal-Fixativ allows highly transparent, colour-brilliant glazes with very low layer thickness.

Covering coat:

A priming and finishing coat is required to achieve opaque, structure-preserving thin-layer protective coatings. KEIM Concretal-Lasur can be brushed, rolled or sprayed (nozzle  $\geq 512$ ).

Primer coat: Dilute 15 l KEIM Concretal-Lasur with 2.5 – 8 l KEIM Concretal-Fixativ (1 l KEIM Concretal-Lasur with 0.2 – 0.5 l KEIM Concretal-Fixativ).

Final coat: Apply KEIM Concretal-Lasur undiluted.

### DRYING TIME:

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 Silangrund, the primer coat is to be applied after approx. 4 hours, after KEIM Silan 100 after approx. 4 - 24 hours.

### CLEANING OF TOOLS:

Clean immediately with water.

## 5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
15	l	24	bucket
5	l	70	bucket

## 6. STORAGE

max. storage time	Storage conditions
12 months	keep container tightly sealed. cool frost-free protected from heat and direct sun.

### 7. DISPOSAL

---

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

Waste code: 08 01 12

### 8. SAFETY INSTRUCTIONS

---

Please, refer to the Material Safety Data Sheet.

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.

### 9. 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.