

Technical Data Sheet

KEIM Concretal®-Lasur Thin layer concrete coating



1. Product description

Sol-silicate-based, thin layer coating for providing a low pigment finish when diluted with KEIM Concretal-Fixativ or KEIM Concretal-Base, as well as for opaque thin layer protective coatings. Complies with DIN EN 1504-2/2.2 when using it together with KEIM Silan-100.

2. Field of application

For providing a low-pigment finish on fair-faced interior and exterior concrete surfaces, e.g. to retain the fair-faced appearance while concealing stains or repairs with a concrete colour shade and for providing colour wash finishes when diluted as required with KEIM Concretal-Fixativ or KEIM Concretal-Base.

Or:

For opaque thin layer coatings retaining surface texture and providing a protective water- and weather-proof finish.

Water-proofing may be further enhanced by providing the substrate with a water-repellent pretreatment using KEIM Silangrund or KEIM Silan-100. The application of KEIM Concretal-Lasur together with KEIM Silan-100 complies with water protection requirements as per DIN 1504/2.2.

KEIM Concretal-Lasur is not suitable for horizontal and slightly inclined weathered surfaces.

Colour shade

Shades from KEIM Palette exclusiv.

3. Product properties

For providing a low-pigment finish on fair-faced interior KEIM Concretal-Lasur protects the concrete from the action of weather and thus also prevents the penetration of aggressive atmospheric pollutants. Surface textures on the concrete, such as shuttering board textures, are fully retained.

The surface is mineral matt. At various dilutions with KEIM Concretal-Fixativ or KEIM Concretal-Base, different low-pigment finishes may be achieved or optical shortcomings, such as stains or colour differences, can be offset.

Binder

The binder is a combination of silica sol, potassium silicate and pure acrylate.

Technical data (undiluted)

- Density: 1.20 g/cm³
- Vapour diffusion resistance: $s_d(H_2O) = 0.02 \text{ m}$
- Colour fastness: A1
(Fb-Code acc. to BFS instruction sheet No.26)

4. Application instructions

The substrate must be sound, dry, clean and free from any loose particles, dust, oil or other adhesion-impairing substances. Organically bound coats must be completely removed.

In the case of new concrete structures, any shuttering oil residues should be removed with KEIM Betonschnellreiniger (concrete cleaner).

Clean, strong concrete requires no pretreatment.

Before KEIM Concretal-Lasur is applied, highly absorbent substrates or surfaces exposed to severe weather may be provided with a water-repellent substrate treatment using KEIM Silangrund or KEIM Silan-100 (tested to ZTV-ING) to enhance water-proofing. A subsequent primer coat of KEIM Concretal-Lasur may 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 coats may be stabilized by pretreatment with KEIM Concretal-Fixativ.

Low-pigment coating

In exterior applications, the requirement for weathering resistance generally entails applying two coats of low pigment coating by brush. For the priming and finishing coat, KEIM Concretal-Lasur may be diluted in any ratio with KEIM Concretal-Fixativ or KEIM Concretal-Base depending on the desired translucency of the finish. It is recommended to coat trial areas in order to determine the dilution ratio. Keep diluted KEIM Concretal-Lasur well stirred before and during work. Neither water nor any other materials may be added.

Note

The system components Concretal-Lasur, Concretal-Base and Concretal-Fixativ may be mixed together in any desired ratio. KEIM Concretal-Base provides an attractive transparency together with ideal application consistency and film thickness. KEIM Concretal-Fixativ provides highly transparent low-pigment finishes with good colour brightness and a very low film thickness.



Opaque coating

A priming coat plus finishing coat is necessary in order to obtain an opaque protective coating which retains texture.

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

Finishing coat: Concretal-Lasur applied undiluted by brush, roller or spraying, keeping a wet edge.

Application conditions

From +5°C up to max. 30°C air and substrate temperature, up to max. 80% relative humidity. Only apply in dry weather conditions. Do not apply in strong sunlight, onto sun-heated substrates or in strong wind. After application, protect surfaces from excessively fast drying, wind and rain.

Drying times

At least 12 hours between coats. Before priming coat approx. 4 hours after KEIM Silangrund or approx. 4–24 hours after KEIM Silan-100.

Consumption

For a two-coat opaque finish:

Approx. 0.25 l/m² KEIM Concretal-Lasur and
Approx. 0.04 l KEIM Concretal-Fixativ

For a two-coat low-pigment finish:

Depending on degree of dilution, determine by trial application.

The stated consumption figures are guide values for a smooth substrate. Exact values can only be determined by painting trial areas on the structure to be coated.

Cleaning of tools

Clean with water immediately after use.

5. Packaging

KEIM Concretal-Lasur

1 l, 5 l and 15 l containers

KEIM Concretal-Fixativ

5 l and 20 l containers

KEIM Concretal-Base

5 l and 20 l containers

6. Storage

KEIM Concretal-Lasur, KEIM Concretal-Base and KEIM Concretal-Fixativ have a shelf life of 12 months in a closed container and under cool, frost-free conditions.

7. Disposal

EC Waste Code No. 08 01 12

Any residues must be emptied out of containers before recycling.

8. Safety instructions

GISBAU Product Code/ GISCODE: M-SK 01

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 plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

Please refer to EC 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.

