



KEIM Concretal®-Lasur

1. Product description

Silicate-based, thin layer coating for providing a low-pigment finish when diluted with KEIM Concretal®-Fixativ or for opaque thin layer protective coatings.

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 color shade and for providing color wash finishes when diluted as required with KEIM Concretal®-Fixativ.

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.

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

Color shade

Shades from KEIM's standard range only.

3. Product properties

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, different low-pigment finishes may be achieved or optical shortcomings, such as stains or color differences, can be offset.

Binder

Potassium silicate and pure acrylate.

Technical data (undiluted)

Density: 1.20 g/cm³

Water absorption coefficient: $w = 0.05$ [kg/m² h^{0.5}]

Vapor diffusion resistance: s_d (H₂O) = 0.02 m

4. Application instructions

The substrate must be dust-free and dry. Loose areas, dirt, oily substances, moss and algae and any unsound existing organically bound coats must be completely removed.

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

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-SIB 90) 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 depending on the desired 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.

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 liters of KEIM Concretal®-Lasur with 2.5 - 8 liters of KEIM Concretal® (1 liter of Lasur with 0.2 - 0.5 liter diluent).

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

Approx. 24 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 liter/m² KEIM Concretal®-Lasur and
approx. 0.04 liter 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 liter, 5 liter and 15 liter containers

KEIM Concretal®-Fixativ

5 liter and 20 liter containers

6. Storage

KEIM Concretal®-Lasur and KEIM Concretal®-Fixativ

have a shelf life of 12 months in a closed container and under cool, frost-free conditions.

7. Hazardous Substances Ordinance class

n/a.

8. Disposal

EC Waste Code no. 08 01 12

Any residues must be emptied out of containers before recycling.

9. Product code

M-SK 01

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 water. Protect the eyes and skin from splashes. 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 supersedes all earlier editions.
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