



TECHNICAL DATA SHEET

KEIM CONCRETAL®-LASUR

1. PRODUCT DESCRIPTION

Sol-silicate-based, thin-layer concrete coating for providing a colour wash finish when diluted with KEIM Concretal-Base or KEIM Concretal-Fixativ, 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 semi-transparent finishes in glazing technique on fair-faced interior and exterior concrete surfaces, for instance to retain the character of the fair-faced concrete while concealing stains or repairs with a concrete colour shade and for colour wash finishes when diluted as required with KEIM Concretal-Base or KEIM Concretal-Fixativ.

Or:

For opaque thin-layer coatings to retain surface texture and to provide a preventive water and weather protection.

Water protective function 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 1504-2/2.2.

Not suitable for horizontal and inclined weathered surfaces.

Colour shades:

White, concrete-grey shades and according to KEIM's Palette Exclusiv colour swatches.

3. PRODUCT PROPERTIES

KEIM Concretal-Lasur protects the concrete against weathering and thus also against the penetration of aggressive atmospheric pollutants.

Surface textures on the concrete, such as shuttering board textures, are fully retained. The surface is mineral matt.

Different semi-transparent glaze finishes may be achieved using various dilutions with KEIM Concretal-Base or KEIM Concretal-Fixativ and visual shortcomings, such as stains or colour differences can be equalised.

Binder:

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

Technical data:

- Density: approx. 1.1 – 1.3 g/cm³
- Vapour diffusion resistance: $sd(H_2O) = 0.02$ m
- Colour stability: A1
(Colour code acc. to BFS technical information No. 26)

4. APPLICATION INSTRUCTIONS

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

In case of new concrete structures, any shuttering oil residues must be removed with KEIM Betonschnell-reiniger (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 the water protection.

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 coats may be stabilized by pretreatment with KEIM Concretal-Fixativ.

Glaze coating:

For exterior application the requirement for weathering resistance generally entails to apply two coats by brush. 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. This applies for the base coat and top coat. It is recommended to apply 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 must 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 colour wash finishes with true colour brilliance and a very low film thickness.

Opaque coating:

A base coat plus top coat is required in order to obtain a thin-layer, opaque, texture-retaining and protective coating.

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

Top coat: Concretal-Lasur applied undiluted by brush, roller or sprayer, 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. Protect the surfaces also after application from direct sun, drying too fast, wind and rain.

Drying times:

At least 12 hours between coats. Before performing the base coat wait approx. 4 hours after a pretreatment with KEIM Silangrund and approx. 4 - 24 hours after KEIM Silan-100.

Consumption:

For a two-coat opaque finish per m²:
approx. 0.25 l KEIM Concretal-Lasur and
approx. 0.04 l KEIM Concretal-Base.

For a two-coat glaze finish:

Depending on degree of dilution. To be determined by on-site test areas.

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

1 l, 5 l and 15 l containers

6. STORAGE

12 months in sealed container under cool, frost-free conditions. Protect from heat and direct sunlight.

7. DISPOSAL

EC Waste Code No. 08 01 12.

Any residues must be emptied out of containers before recycling.

8. SAFETY INSTRUCTIONS

Giscode: BSW10

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 Material Safety Data Sheet

9. CERTIFICATES AND 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 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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