



1. Product description

KEIM Concretal Dilution is a silicate-based dilution and primer developed for concrete substrates, its binder consisting of a combination of potassium silicate, silica sol and organic additives

2. Field of application

KEIM Concretal Dilution is the dilution and additive for the silicate-based coatings in the KEIM Concretal concrete protection system:

KEIM Concretal-W
KEIM Concretal-W-Grob
KEIM Concretal-Lasur
KEIM Contact-Plus

The absorbency of highly absorbent mineral substrates can be controlled or reduced with KEIM Concretal Dilution.

3. Product properties

- Bonds permanently with the substrate by silicification
- Weather resistant
- Water vapor permeable
- Non-flammable
- UV-resistant
- Hinders fungal and mold growth
- Resistant to industrial fumes
- Solvent-resistant
- Environmentally friendly, good environmental impact assessment
- Excellent low environmental impact building material

Material characteristics

- Specific weight: approx. 1.05 g/cm²
- pH-value: approx. 11

Color shade

Milky

4. Application instructions

Substrate preparation

The substrate must be sound, dry, clean and free of dust and grease. Repair damaged areas using the KEIM Concretal concrete repair system.

Application

For pre-treating highly absorbent substrates:

Apply KEIM Concretal Dilution undiluted with a brush.

As dilution for normal smooth substrates for opaque protective coatings for concrete:

KEIM Concretal-W/Concretal-W-Grob

For the priming coat, depending on substrate absorbency, stir at most 10% KEIM Concretal Dilution into KEIM Concretal-W (max. 2.5 liters (0.7 gal) of dilution per 25 kg of paint), finishing coat with undiluted KEIM Concretal-W.

KEIM Concretal-Lasur

For the priming coat, depending on substrate absorbency, stir approx. 20-50% KEIM Concretal Dilution into KEIM Concretal-Lasur (approx. 0.2-0.5 liter (6.8-17 fl oz) of dilution per liter (=0.3 gal) of Lasur), finishing coat with undiluted KEIM Concretal-Lasur.



As a dilution for low-pigment/creative use:

Depending on the desired finish, KEIM Concretal-Lasur may be diluted in the priming and finishing coat with KEIM Concretal Dilution in any desired ratio. See the relevant Technical Data Sheet for further details regarding the dilution and use of KEIM Concretal-W and KEIM Concretal-Lasur.

Application conditions

Ambient and substrate temperature > + 5°C (41 °F).

Drying time

A drying time of at least 12 hours must be allowed between pre-treatment and priming and between coats.

Consumption

For pre-treatment on a smooth substrate:
approx. 0.1 – 0.2 l (3.4 – 6.8 fl oz) KEIM Concretal-Fixativ. per m² (10.8 sq ft).

The stated consumption value is for guidance and depends on the absorbency and texture of the substrate. Exact consumption values can only be determined by painting test areas on the structure to be coated.

Cleaning of tools

Clean with water immediately after use.

5. Packaging

5 liter and 20 liter containers.

6. Storage

Storage life is approx. 12 months in a sealed container under cool, frost-free conditions. Protect from heat and direct sunlight.

7. Hazardous substances ordinance class

n/a

8. Transport hazard class

n/a

9. Disposal

EC Waste Code no. 06 02 99

Any residues must be emptied out of containers before recycling.

10. Safety instructions

KEIM Concretal-Fixativ is alkaline. 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.

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.

