

Technical Data Sheet

KEIM Concretal® Dilution (Fixativ)

Thinner, Primer and Dilution for the KEIM Concretal system



1. Product description

KEIM Concretal Dilution is a silicate-based dilution and primer developed for concrete substrates, it consists of a sol-silicate binder and additives

2. Field of application

KEIM Concretal Dilution is the dilution and additive for the sol-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 with a coat of KEIM Concretal Dilution as a primer or pretreatment.

3. Product properties

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

Material characteristics

- Specific weight: approx. 1.05 g/cm²
- pH-value: approx. 11
- VOC's ASTM D6886: 0 g/l
- Vapor permeability 75 - 85 perms

Color shade

Milky

4. Application instructions

Substrate preparation

The substrate must be sound, solid, dry, clean and free of dust, grease, oils, salts, moss, algae and other substances that would prevent bonding. Old resin coatings, loose substrate layers and organically bound coats must be removed. 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, roller or low pressure spray.

Dilution for KEIM Concretal coatings for concrete:

KEIM Concretal-W/Concretal-W-Grob

Use for the priming coat, and as dilution for first coat. Depending on substrate absorbency, mix up to 10% max. of KEIM Concretal Dilution into KEIM Concretal-W. Finish coat of KEIM Concretal-W is applied undiluted. See relevant Technical Data Sheet for more information.

KEIM Concretal-Lasur

Use for the priming coat, and to dilute the KEIM Concretal Lasur to the desired ratio. See product Technical Data Sheet for additional information.



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Application conditions

Air and substrate temperature: >41 °F up to max. 86 °F (5 °C -30 °C) up to max. 80% relative humidity.

Apply only to dry surfaces and in dry weather. Do not apply under direct sun or on sun-heated substrates or in strong wind. Surfaces must be protected after application from rain, wind and direct sun until they are completely cured.

Drying time

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

Consumption

600-800 sq.ft./1.3 gallon (5 l) container when applied as a pretreatment and primer.

For KEIM Concretal-W/Concretal-W-Grob at 10% 12 - 13 oz / gallon of the respective coating. Used in the first coat only.

For KEIM Concretal-Lasur consumption depends on the dilution ratio. For example a 1:1 ratio would be 1 gallon of KEIM Concretal-Lasur and 1 gallon of KEIM Concretal-Dilution.

The stated consumption value is for guidance and depend on the absorbency and texture of the substrate desired translucency effect, application method and substrate conditions. Exact consumption values can only be determined by a trial application on site using the tools, methods and techniques that will be used for the final application.

Cleaning of tools

Clean with water immediately after use.

5. Packaging

1.3 gallon (5 l) and 5.3 gallon (20 l) 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.

