



TECHNICAL DATA SHEET

KEIM CONCRETAL-DILUTION

1. PRODUCT DESCRIPTION

KEIM Concretal-Dilution is a silicate-based thinner and primer developed for concrete substrates. It consists of a binder combination of potassium silicate, silica sol and organic additives. KEIM Concretal-Dilution is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

2. FIELD OF APPLICATION

KEIM Concretal-Dilution is used as a thinner or admixture for the silicate-based paints in the KEIM Concretal concrete protection system:

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

With KEIM Concretal-Dilution, the absorbency of highly absorbent mineral substrates can be regulated or reduced.

3. PRODUCT PROPERTIES

- silicifies insolubly with the substrate
- environmentally friendly
- sound in terms of building biology
- Cradle to Cradle Certified®-Certificate Silver
- C2C Certified Material Health Certificate™ Gold
- highly water vapour permable
- highly weather-resitant
- absolutely UV-resistant
- anti-fungal and anti-algae thanks to natural alkalinity
- resistant against industrial emissions
- solvent-resistant
- fire behaviour: non-flammable
- low-odour

MATERIAL CHARACTERISTICS:

- Density: approx. 1,0 - 1.1 g/cm³
- pH value: approx. 11

COLOUR SHADES:

milky

4. APPLICATION INSTRUCTIONS

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SUBSTRATE PREPARATION:

The substrate must be sound, clean and free from all loose particles, dust, oil and other substances with a separating effect. Organically bound existing coatings must be completely removed. Repair damaged areas in the KEIM Concretal concrete repair system.

APPLICATION CONDITIONS:

Ambient and substrate temperature during application and drying must be ≥ 5 °C.

APPLICATION:

For pre-priming highly absorbent substrates: KEIM Concretal-Dilution apply undiluted with a brush.

As a thinner for normally smooth substrates for opaque protective concrete coatings: KEIM Concretal-W / Concretal-W-Grob / Concretal-Black.

For the primer coat: depending on the substrate absorbency, stir max. 10% KEIM Concretal-Dilution into KEIM Concretal-W (max. 2.5 litres KEIM Concretal-Dilution per 25 kg paint).

Final coat: with KEIM Concretal-W undiluted.

KEIM Concretal-Lasur:

For the primer coat, stir approx. 20-50% KEIM Concretal-Dilution into KEIM Concretal-Lasur, depending on the substrate absorbency (approx. 0.2-0.5 litres Fixativ per litre glaze).

Final coat: with KEIM Concretal-Lasur undiluted.

As thinner for glazing/design application: KEIM Concretal-Lasur can be diluted with KEIM Concretal-Dilution / Concretal-Black in any ratio in the priming and finishing coat, depending on the desired glaze effect.

For further information on dilution and application of KEIM Concretal-W, KEIM Concretal-Black and KEIM Concretal-Lasur, see the respective technical data sheet.

CONSUMPTION:

approx. 0,15 l/m² for application as primer.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

CLEANING OF TOOLS:

Clean immediately with water.

5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
20	l	24	jerry can
5	l	96	jerry can

6. STORAGE

max. storage time	Storage conditions
12 months	keep container tightly sealed. cool frost-free protected from heat and direct sun.

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7. DISPOSAL

For disposal information refer to section 13 of the safety data sheet.

EC WASTE CODE:

Waste code: 06 02 99

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

9. GENERAL INFORMATION

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign additives is not permitted.

10. CERTIFICATES & 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 the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.