

KEIM Ecotec® Hydrophobic agent concentrate



1. Product description

KEIM Ecotec is a solvent-free, concentrated hydrophobic agent based on silane/siloxane micro-emulsion technology.

2. Field of application

KEIM Ecotec is an environmentally friendly, solvent-free, alkaline stable, colorless water repellent treatment for use on porous mineral surfaces. It is also ideal for adding additional water repellency to KEIM Purkristalat coatings as well as other alkaline mineral surfaces. KEIM Ecotec is a concentrate and must be mixed with clean water at a ratio of 1 part KEIM Ecotec to 9 parts clean water.

3. Product properties

- Environmentally friendly
- Water-soluble, no solvents added
- Excellent water repellency
- Good surface penetration
- Good alkali stability
- Water vapor permeable
- Does not change color

Material characteristics

- Specific weight: approx. 1 g/cm³
- Viscosity: ideal-viscous flow property
- VOC's (Concentrate) <50 g/l ISO 11890-2
- VOC's (Ready to use) <6 g/l
- Water absorption coefficient: $w = 0.05 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
- Color shade: Yellowish- up to brownish-transparent. The color of the ready to use product is clear. The color of the concentrate does not influence the surface and long-term hydrophobic property.

4. Application instructions

KEIM Ecotec is to be mixed to a ratio of 1:9 with water (1 part KEIM Ecotec + 9 parts water). This mixture is to be used within 24 hours.

The surface has to be open-porous, clean, dry and without partial moisture patches before treating with the ready-to-use mixture. The surfaces to be treated are soaked by flooding (low pressure spray) or by brush from top to bottom. The air and substrate temperature must be above 5° C (41°F) during application and must be protected from freezing 12 hours after application.

Previously applied KEIM Purkristalat coatings can be treated after 3 days.

Consumption

Consumption values depend on the capillary absorbency and/or the pore structure of the substrate: approx. between 0.2 l (0.68 fl oz) up to 0.8 l (2.7 fl oz) per m² (ready-to-use mix). This corresponds to a proportion of 0.02 up to 0.08 l (6.8 up to 27 fl oz) KEIM Ecotec per m².

The consumption value given is only for guidance. Precise consumption values must be determined by test areas on the structure to be treated.

5. Packaging

Container with 1 l concentrate (corresponds to 10 l of ready-to-use mix).

6. Storage

9 months if tightly closed and stored under cool conditions. Keep out of direct sunlight.



7. Hazardous substances ordinance class

Xi	Irritant
R 10:	Flammable
R 41:	Risk of serious damages to eyes.
R 52/53:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S 7/9:	Keep container tightly closed in a well-ventilated place.
S 23:	Do not breathe aerosol.
S 26:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 39:	Wear eye/face protection.
S 51:	Use only in well-ventilated areas.

8. Transport hazard class

UN 1993

9. Disposal

EC Waste Code No. 07 01 99

Any residues must be emptied out of containers (non-drip) before recycling.

10. Safety instructions

Cover surrounding glass, ceramics, flashings and natural stone areas which are not to be coated. This is to protect from having water repellency where it is not desired, KEIM Ecotec is not harmful to these or other surfaces. Any splashes on surrounding surfaces or traffic areas can be easily rinsed off immediately with plenty of water. Protect

the eyes and skin from splashes. Keep out of reach of children.

For further information see Material Safety Data Sheet.

Product code: n/a

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.

