



KEIM Ecosil®

1. Product description

KEIM Ecosil® is a heavy duty, multipurpose interior silicate paint to DIN EN 13 300 (it also meet the requirements of DIN 18 363, 2.4.1, emulsion silicate paint).

2. Field of application

KEIM Ecosil® is particularly suitable for interior walls and ceilings in heavily used areas such as public buildings, hospitals, schools, offices, wet rooms and food storage areas.

Suitable substrates include all mineral renders, concrete, plasterboard, glass fibre fabric and sound existing coatings.

Highly absorbent or dusting substrates are pretreated with KEIM Spezial-Fixativ®. KEIM Ecosil®-Grund may advantageously be applied as a first coat in order to equalise differing levels of absorbency and on plasterboard. When applying coloured finishes onto plasterboard surfaces and substrates spot-filled with plaster, an undiluted first coat of KEIM Ecosil®-Grund is absolutely essential (as an alternative coating structure for coloured finishes on plasterboard and substrates spot-filled with plaster: two coats of KEIM Ecosil®-GS). KEIM Ecosil®-Grund should not be used on pure gypsum plaster renders (P IVa, b and P Va). KEIM Ecosil® is not suitable for surfaces with salt efflorescence, on wood and on previously painted surfaces.

- safe for foodstuff applications (according to test certificate)
- easy to touch up
- elevated hiding power
- non-flammable (similar to building material class DIN 4102-A2, according to test certificate)
- resistant to fungal and mould growth, due to mineral alkaline nature

Material characteristics

- org. content: < 5%
- specific weight: approx. 1.55 g/cm³
- diffusion-equivalent air-layer thickness: $s_d < 0.01$ m (FPL report) (to DIN EN ISO 7783-2)

Classification according to DIN EN 13300

- gloss at 85° (to ISO 2813): dull matt
- maximum grain size (to EN 21524): fine
- contrast ratio (hiding power) (to ISO 6504-3) (at a yield of 5 m²/l): class 1
- wet abrasion resistance (to EN ISO 11998): class 1 (exceeds "abrasion resistant" to DIN 53 778)

Colour shade

White and shades from KEIM's Exclusive range (except 9001 to 9010).

Tint only with KEIM colour concentrates.

3. Product properties



- can be exposed to extreme mechanical loads
- resistant to disinfectants
- suitable for allergy sufferers (according to test certificate)
- solvent-free
- zero plasticiser content

4. Application instructions

Application temperature

Ambient and substrate temperature must not fall below +5°C.

Substrate preparation

Highly absorbent or dusting substrates are pretreated with KEIM Spezial-Fixativ®.

Application

KEIM Ecosil® may be applied by brush, roller or spraying (0.79 mm nozzle). Depending on how drying is progressing, an interval of at least 6 hours should

generally be observed between the priming and final coat.

Priming coat: dilute KEIM Ecosil® with at most 10% KEIM Spezial-Fixativ®.

Final coat: KEIM Ecosil® undiluted.

Consumption

Two-coat system:

approx. 0.3 l/m² of KEIM Ecosil®

approx. 0.02 l/m² of KEIM Spezial-Fixativ®

The stated consumption figures are for guidance. Exact 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 l and 15 l containers

6. Storage

Approx. 12 months in 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. 08 01 12

Any residues must be emptied out of containers before recycling.

10. Safety instructions

Cover areas which are not to be coated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes of paint. When using, do not eat or drink.

Keep out of reach of children.

Product code: M-SK 01

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.