

Technical Data Sheet

KEIM Ecosil®-ME With MiNOx®-Effect – photocatalytic action



1. Product description

KEIM Ecosil-ME is a heavy duty, multipurpose interior silicate paint to DIN EN 13 300 (it also meets the requirements of DIN 18 363, 2.4.1, silicate emulsion paint) with the property to reduce pollutants and neutralise odours.

2. Field of application

KEIM Ecosil-ME is particularly suitable for interior walls and ceilings in heavily used areas such as public buildings, hospitals, schools, offices, hotels, restaurants 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 Soliprim. KEIM Grundierweiß 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 Grundierweiß is absolutely essential (as an alternative coating structure for coloured finishes on plasterboard and substrates spot-filled with plaster: two coats of KEIM Optil). KEIM Grundierweiß should not be used on pure gypsum plaster renders (P IVa, b and P Va). KEIM Ecosil-ME is not suitable for surfaces with salt efflorescences, on wood and enamels.

3. Product properties



- Can be exposed to extreme mechanical loads, highly scrub-resistant
- Photocatalytic effect (test report): converts noxious gases and odours into uncritical substances like carbon dioxide and water
- Anti-bacterial action
- Resistant to disinfectants
- Suitable for allergy sufferers (according to test certificate)
- No solvents added

- Zero plasticiser content
- Safe for foodstuff applications (according to test certificate)
- Easy to touch up
- Elevated hiding power
- Non-flammable (class A2-s1,d0 as per EN 13501-1, acc. to classification report)
- Resistant to fungal and mould growth, due to mineral alkaline nature (test certificate)

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)
- pH-value: 11 - 12

Classification acc. 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 6.5 m²/l): class 1
- Wet abrasion resistance (to EN ISO 11998): class 1 acc. to certificate

Colour shade

White and according to KEIM's Palette Exclusive range. Not available in full tone colours. Tint only with KEIM colour concentrates.

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 Soliprim.

Application

KEIM Ecosil-ME may be applied by brush, roller or spraying (nozzle size: 0.64 mm / 0.025 inch; see technical data "Airless technique" for further information).



Depending on how drying is progressing, an interval of at least 6 hours should generally be observed between the base and top coat.

Base coat: Dilute KEIM Ecosil-ME with at most
10% KEIM Spezial-Fixativ.
Top coat: KEIM Ecosil-ME undiluted.

Consumption

Two-coat system:

approx. 0.25 l/m² of KEIM Ecosil-ME

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. Disposal

EC Waste Code No. 08 01 12

Any residues must be emptied out of containers before recycling.

8. Safety instructions

GISBAU Product Code/ GISCODE: M-SK 01

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. Do not eat or drink during application. Keep out of reach of children.

Please refer to EC Safety Data Sheet.

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.

