



KEIM Biosil®

Unsurpassed consumption rates
Excellent hiding power
Outstanding ease of application



1. Product description

KEIM Biosil® is a ready-to-use silicate based interior paint manufactured in accordance with DIN EN 13 300 (also complies with DIN 18 363, 2.4.1 silicate emulsion paint).

2. Field of application

KEIM Biosil® is suitable for all normal interior wall and ceiling surfaces, e.g. in offices, living rooms, bedrooms, kitchens, bathrooms and cellars. KEIM Biosil® is particularly suitable for sensitive areas such as hospitals, nurseries or schools and also for food storage areas. Highly absorbent or dusting substrates are pretreated with KEIM Spezial-Fixativ®. KEIM Biosil®-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 gypsum plaster, an undiluted first coat of KEIM Biosil®-Grund is absolutely essential (as an alternative coating structure for coloured finishes on plasterboard and substrates spot-filled with plaster: two coats of KEIM Biosil® GS). KEIM Biosil®-Grund should not be used on pure gypsum plaster renders (P IVa, b and P Va). KEIM Biosil is not suitable for surfaces with salt efflorescence, on wood and on previously painted surfaces.



3. Product properties

- solvent-free
- zero plasticiser content
- breathable
- low environmental impact
- abrasion resistant
- low stress
- elevated hiding power
- extremely good consumption rates
- non-flammable (similar to DIN 4102 building material class A2)
- safe for foodstuff applications

Material characteristics

- org. content: < 5%
- specific weight: approx. 1.45 g/cm³
- diffusion-equivalent air-layer thickness: sd < 0.01 m (corresponds to water vapour diffusion density: V > 2000 g/m_d)

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 7 m²/l): class 1
- Wet abrasion resistance (to EN ISO 11998): class 2 (corresponds to "abrasion resistant" to DIN 53778)

Color shade

White and KEIM's Pläette exclusive range.
Not available in full tone colours.
Tint only with KEIM colour concentrates.

4. Application instructions

Substrate preparation and application

The substrate must be sound, dry, clean and free of dust and grease. Substrate and air temperature during application and drying > 5°C.

For unproblematic substrates, the priming coat may be diluted with water,

- e.g.
- renders of mortar groups P I, II, III, IVc,d, Vb
 - concrete
 - glass fibre fabric
 - fair-faced masonry
 - mineral paints



– woodchip wallpaper – emulsion paints

For problematic substrates, e.g. pure gypsum renders, highly absorbent or dusting surfaces, KEIM Spezial-Fixativ® must be used as a pretreatment and to dilute the priming coat.

KEIM Biosil® may be applied by brush, roller (recommended for smooth substrates, for example plasterboard: short pile roller) or by spraying (0.79 mm nozzle). If KEIM Biosil® is to be sprayed as a single coat, it should be diluted with KEIM Spezial-Fixativ® to a good spraying viscosity.

In general, at least 6 hours must be left between coats if two coats of the paint are to be applied.

Priming coat: Dilute 10 l of KEIM Biosil® with approx. 1 l of KEIM Spezial-Fixativ® or water.

Finishing coat: KEIM Biosil®, undiluted. If necessary, dilute 10 l of KEIM Biosil® with at most 0.5 l of KEIM Spezial-Fixativ®.

Consumption

Two coats on a smooth substrate: approx. 220 ml of KEIM Biosil® per m² (corresponds to approx. 4.5 m²/l).
One coat on a smooth substrate: approx. 110 ml of KEIM Biosil® per m² (corresponds to approx. 9 m²/l).

Cleaning of tools

Clean with water immediately after use.

5. Packaging

5 l and 15 l buckets.

6. Storage

12 months in sealed container under cool, frost-free conditions.

Protect from heat and direct sunlight.

7. Hazardous Substances

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

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.

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.