



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 sect. 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 Soliprim. When applying white finishes onto plasterboard surfaces and substrates spot-filled with gypsum plaster, a first coat of KEIM Grundierweiß can be advantageously. KEIM Grundierweiß should not be used on pure gypsum plaster renders (P IV a, b and P V a). In this case coatings with KEIM Ecosil-ME or KEIM Optil are recommended. KEIM Biosil is not suitable for surfaces with salt efflorescence, on wood and enamels.



3. Product properties

- No solvents added
- Zero plasticiser content
- Highly vapour permeable
- Low environmental impact
- Abrasion resistant
- Low stress
- Elevated hiding power
- Non flammable (class A2 according to DIN 4102/ class A2-s1-d0 according to EN 13501-1, compliant with test certificate)
- Safe for foodstuff applications
- Hinders mould growth, due to mineral alkaline nature
- Suitable for allergic persons

Material characteristics

- Org. content: < 5%
- Specific weight: approx. 1.48 g/cm³
- Diffusion-equivalent air-layer thickness: $s_d < 0.01 \text{ m}$ (corresponds to water vapour diffusion density: $V > 2000 \text{ g/m}^2\text{d}$)

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)

Full declaration according to the criteria of „natureplus“

Silicate and calcitic fillers, potassium waterglass, water, titanium dioxide, styrene-acrylate resin, hydrophobing agents, thickeners, stabilizers, wetting and defoaming agents.

Colour shades

White and according to KEIM's Palette Exclusiv range.

Not available in full tone colours.

Biosil white can be tinted 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 problematic substrates, e.g. highly absorbent or dusting surfaces, KEIM Soliprim must be used as a pre-treatment.

On loam render a pretreatment with KEIM Spezial-Fixativ is recommended, diluted with water 1 : 1. Priming coat to be diluted with 10% water, finishing coat undiluted.

KEIM Biosil may be applied by brush, roller (recommended for smooth substrates, for example plasterboard: short pile roller) or by airless spraying (nozzle size: 0.64 mm/ 0.025 inch; see technical data sheet "Airless technique" for further information).

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 water.

Finishing coat: KEIM Biosil, undiluted.

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 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

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.

