

## **KEIM BIOSIL**

### **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).

### **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.

KEIM BIOSIL is not suitable for surfaces with salt efflorescence, on wood and enamels.

Porous or sandy substrates, or with differences in porosity like plasterboards, benefit of being prepared with KEIM Spezial-Fixativ prior to application.

### **Product properties**

- No solvents added
- Zero plasticiser content
- Highly vapour permeable
- Low environmental impact
- Abrasion resistant
- Low stress
- Elevated hiding power
- Non-flammable (according to DIN 4102 building material class A2)
- 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/cm<sup>3</sup>
- Diffusion-equivalent  
air-layer thickness : sd < 0.01 m  
(corresponds to water vapour diffusion density: V > 2000 g/m<sup>2</sup>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) : class 1  
(to ISO 6504-3)  
(at a yield of 7 m<sup>2</sup>/l)
- Wet abrasion resistance : class 2  
(to EN ISO 11998)  
(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.

## **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.

On loam render a pretreatment with KEIM Spezial-Fixativ is recommended, diluted with water 1 : 1. Priming coat to be diluted with approx. 20% water, finishing coat to be diluted with approx. 10% water. In this case no additional dilution with KEIM Spezial-Fixativ is needed.

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).

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

Consumption

Two coats on a smooth substrate:

approx. 0,220 l of KEIM BIOSIL per m<sup>2</sup> (corresponds to approx. 4.5 m<sup>2</sup>/l), and approx. 0,01 l of KEIM Spezial-Fixativ.

Cleaning of tools

Clean with water immediately after use.

## **Packaging**

5 l and 15 l buckets

## **Storage**

12 months in sealed container under cool, frost-free conditions. Protect from heat and direct sunlight.

### **Disposal**

EC Waste Code No. 08 01 12

Any residues must be emptied out of containers before recycling.

### **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

### **Remarks**

The current data sheet replaces any previous version.

Our advice and information are given in good faith and depending on the latest developments of our products. We guarantee the consistent quality of our products, but do not accept any liability concerning their application. In any case, we do recommend to consider the type of substrate and the climatic conditions before applying our products or to apply a test surface in order to analyze the suitability of the product for the given substrate. In case of doubt regarding the substrate, consult our technical service department.