

Keim Biosil®

VOC <1g/l

High Quality, Silicate-based exterior paint in accordance DIN 18 363 2.4.1



Product description

Keim Biosil is a ready-to-use silicate based interior paint manufactured in accordance with DIN EN 13 300 2 (also complies with DIN 18 363, 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. Highly absorbent or dusting substrates are pretreated with Keim Spezial-Fixativ/ Keim Soliprim. Keim Grundierweiß may advantageously be applied as a first coat in order to equalize 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 Grundierweiß 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 Grundierweiß should not be used on pure gypsum plaster renders (P IV a,b and P V a). Keim Biosil is not suitable for surfaces with salt efflorescence, on wood and enamels.

- non flammable (similar to DIN 4102 building material class A2)
- safe for food stuff applications
- hinders mould growth, due to mineral alkaline nature
- suitable for allergic persons

Packaging:

5kg and 25kg containers

Material Characteristics

- org content: < 5%
- specific weight: approx. 1.45g/cm³
- diffusion-equivalent
- air-layer thickness: $s_d \leq 0.01$ m
(corresponds to water vapour diffusion density: $V > 2000$ g/m²d)

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) (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 Shade:

White and Keim's Palette Exclusiv range. Not available in full tone colours. Tint only with Keim colour concentrates.

Application Instructions:

Substrate Preparation:

The substrate must be sound, dry, absorbent, 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
 - fair-faced masonry
 - woodchip wallpaper
 - glass fibre fabric
 - mineral paints
 - emulsion paints



Product Properties

- no solvents added
- zero plasticiser content
- breathable
- low environmental impact
- abrasion resistant
- low stress
- elevation hiding power
- extremely good consumption rates



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

On loam render a pretreatment with Keim Spezial-Fixativ is recommended

If the surface is to be subjected to very severe stresses, it is recommended to apply a three-coat system. Keim Spezial-Fixativ is recommended as a diluent on difficult, poor and/or variably absorbent substrates.

Application conditions:

Ambient and substrate temperatures > + 5°C. Do not apply in direct sunlight or onto sun-heated substrates. Protect coated surfaces from direct sunlight, wind and rain during and after application.

Drying Times:

A dry time of at least 12 hours must be left between coats. In the case of pre-treatment with Keim Silangrund, the priming coat should be applied after approx. 4 hours.

Consumption:

For a two coat application on smooth substrate with Keim Granital per m²: approx. 0.35kg Keim Granital
Approx. 0.03 ltr. Keim Fixativ or Keim Spezial Fixativ
The stated consumption values are for guidance and depend on the nature of the application method. Exact consumption values can only be determined by painting trial areas on the structure to be coated.

Cleaning of Tools:

Clean with plenty of water immediately after use. During breaks, store tools in the paint or in water.

Third-party additives:

In order to preserve the specific characteristics of the Granital system, no other substances may be added.

Storage:

Storage life is approx. 12 months in a sealed container under cool, but frost-free conditions. Protect from heat and direct sunlight.

Hazardous substances ordinance class

Not applicable

Transport Hazardous class

Not applicable

Disposal

EC Waste Code no. 08 01 12

Any residues must be emptied out of containers before recycling.

Safety Instructions:

Provide appropriate protection which are not to be coated (e.g. glass, natural stone, ceramics, wood etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with water. Protect the eyes and skin from splashes. Keep out of reach of children.

Product code: M-SK 01

Edition 05/07

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