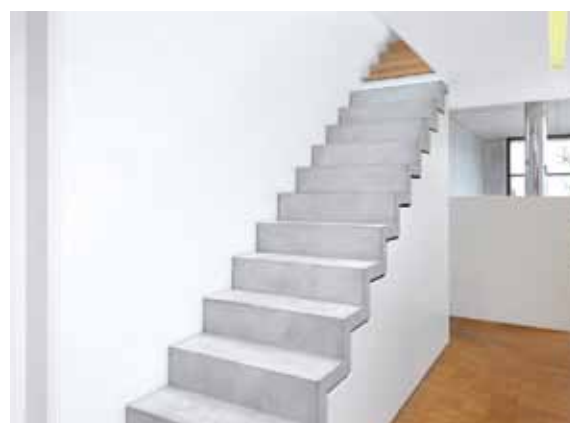


# KEIM Biosil®

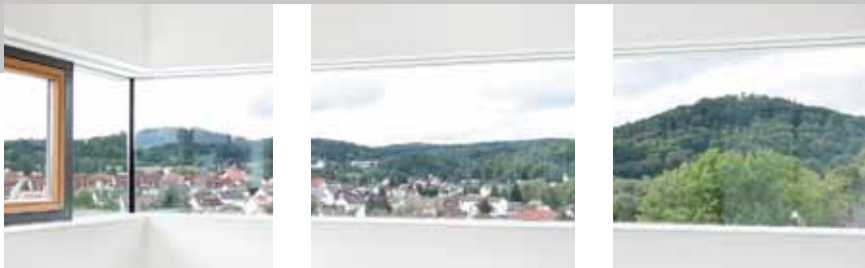


## Ecological interior paint for healthy living

**Approved!**

**PREMIUM**  
is our Standard.





## Enhancing quality of life with silicate paints

Unlike in the past, we now spend about 90% of our time indoors, which means that we're much more demanding in terms of healthy living, functionality and individuality. As a result, the indoor microclimate is more than ever a major factor in well-being and quality of life. Painted finishes have a major part to play – a well-considered colour scheme using the right materials can greatly enhance well-being.

### Focus on health and the environment

Every building contractor is now on the receiving end of a major, legitimate demand for building materials which are environmentally friendly and non-hazardous to health. What's the point of beautiful walls if they emit harmful substances and contaminate the indoor atmosphere? There is no dispute that harmful substances like solvents and plasticisers can lead to a general feeling of malaise, with children being substantially more sensitive than adults. Even a low concentration of harmful substances can impair their health. It is of particular concern that these substances may often be emitted from paintwork into the indoor atmosphere for months on end. Neither solvents nor plasticisers are added to KEIM Biosil, so there's absolutely no question of hazardous emissions. After all, what's not there can't be emitted. Moreover, thanks to the natural alkalinity of its water glass binder, Biosil doesn't even

contain preservatives. For this reason Biosil is ideally suitable for allergy sufferers and therefore has been awarded with the seal „Allergiker-geeignet“ from the INSTITUT FÜR UMWELT UND GESUNDHEIT – IUG. KEIM offers with Biosil an excellent product for sensitive persons – but also the health-conscious building owner or a family with children can trust on Biosil from KEIM.

Biosil's excellent environmental profile has been confirmed by the industry association behind the natureplus quality mark, the „Internationaler Verein für zukunftsfähiges Bauen und Wohnen e.V.“. It is not for nothing that KEIM Biosil was, many years ago, the first interior paint to be awarded the „natureplus“ quality mark, the requirements for which are much more stringent than for e.g. the German „Blue Angel Mark“ and which is an independent confirmation of KEIM Biosil's excellent environmental quality. Moreover, KEIM Biosil is listed in the „DGNB Navigator“, a database of the German Sustainable Building Council (DGNB).

Another important criterion for a healthy interior paint is its vapour permeability, which is determined by the paint film's permeability to water vapour. KEIM Biosil is extremely open-pored because,



### Breathable humidity control

unlike impermeable emulsion paints, it has a microporous structure. As a result, moisture can pass unimpeded through the coat of paint into a wall, where it is stored and subsequently released again. Walls painted with KEIM Biosil can „breathe“, so to speak, and remain dry on the surface even when exposed to high levels of humidity – a factor which is essential for a healthy atmosphere in living areas and is also particularly important for avoiding mould damage.

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**Mould prevention  
without poisons**

In a time of constantly rising heating costs and calls to save energy, mould has become the number one problem in indoor spaces. Highly insulating building materials, multiple glazing, reduced ventilation are all factors which contribute to an increased risk of mould growth and so to greater health risks for occupants. The combination of moisture and organic nutrients provide ideal growing conditions for moulds. In addition to ensuring adequate ventilation, humidity-control wall coatings can also reduce the risk of mould, since the high permeability of a paint such as KEIM Biosil reduces the wall’s surface moisture content. The alkalinity which is typical of silicates has an additional

inhibitory effect on moulds, while the paint’s inorganic composition means that it provides no nutrients for mould growth. Ultimately, this means mould prevention entirely without any addition of toxic biocides or fungicides – a massive advantage for sensitive people such as children or allergy sufferers.

Fogging is the name for the sudden appearance of grey-black deposits in certain indoor areas and usually occurs after the first or second period of heating in new, renovated or restored homes. These oily deposits typically form within a few days in areas exposed to high levels of air movement (e.g. radiators, windows, net curtains) and in areas with a lower surface temperature (e.g. in the corners of rooms). They consist of household dust and low-volatility organic compounds (plasticisers) which evaporate out of paints, laminate and PVC flooring, furniture, adhesives or primers. KEIM Biosil is a safe bet here too because it contains no plasticisers and therefore no substances which contribute to fogging.

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**Fogging -  
no thanks!**

for a healthy indoor climate • no toxic gases in case of fire



# mineral matt

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**Safe - non-flammable** Biosil's non-flammability ensures maximum safety - after all painted walls are the largest indoor areas which could potentially release combustion gases in a fire. A coat of Biosil does not ignite and, even more importantly, does not release any toxic combustion gases.

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**Natural appearance** KEIM Biosil's aesthetic features are no less impressive. Biosil combines an intriguing range of natural colour shades with the familiar natural material properties of a mineral paint. Biosil's matt, muted surface has a particularly attractive appearance and creates a cosy atmosphere in any room. Whether in living rooms, bedrooms or offices, in nurseries, schools or hospitals, walls painted with Biosil create a good atmosphere and a comforting feeling of safety.





### Overview of key features:

- Multipurpose paint for living areas
- Silicate emulsion paint to DIN 18363, 2.4.1
- Awarded the „natureplus®“ quality mark
- Zero emissions and excellent water vapour permeability ensure a healthy indoor microclimate
- Particularly suitable for sensitive areas
- Wet abrasion resistance, class 2 to DIN EN 13300
- Tested as safe for foodstuff applications
- Tested as non-flammable
- Contains no substances which cause fogging
- Suitable for allergy sufferers
- Resistant to mould growth
- Excellent hiding power

Your specialist contractor can give you good advice.