



1. Product description

KEIM Quarzil is a high-quality, ready-to-use silicate-based interior paint acc. to VOB/C DIN 18363 sect. 2.4.1 (silicate emulsion paint) with absolutely light-resistant, inorganic pigments and particularly selected, mineral fillers.

2. Field of application

KEIM Quarzil can be used on all mineral substrates such as e.g. mineral renders, concrete, sandstone or calcareous sandstone.

Due to its high-quality product formulation, KEIM Quarzil is particularly suitable for representative interior rooms, conference buildings, theatres, public buildings, museums, churches etc. Most various applications cases are possible in combination with the product components of the KEIM Quarzil system, which exactly harmonise with one another.

3. Product properties

KEIM Quarzil is a particularly high-quality, proven, silicate-based interior paint with a modified potassium silicate as its binding agent. KEIM Quarzil has excellent covering properties and a high permanent whiteness, is non-yellowing and contains only light-resistant, inorganic colour pigments. Due to the extreme water vapour diffusion capability, the formation of condensation on the surface is prevented. The walls are protected against contamination and micro-organisms.

- Non-film forming
- Mineral matt
- High light reflection
- Non-flammable (DIN 4102-A2)
- Absolutely lightfast
- Abrasion-resistant
- Extremely vapour permeable, therefore dry walls and a healthy room climate
- No moist painting surfaces due to condensation, therefore low degree of soiling
- Mould resistant
- Environmentally friendly - without the addition of solvents and pot preservation agents
- Easily spreadable
- Particularly economic in consumption

Material characteristics

- Specific weight: approx. 1.45 g/cm³
- Diffusion-equivalent air layer thickness: $s_d < 0.01 \text{ m}$ (acc. to DIN EN ISO 7783-2)

Classification acc. to DIN EN 13300

- Degree of gloss at 85° (acc. to ISO 2813): dull matt
- Maximum grain size (acc. to EN 21524): fine
- Contrast ratio (covering power) (acc. to ISO 6504-3): (at a coverage of 4 m²/l or a consumption of 0.35 kg/m² for two coats: Class 1
- Wet abrasion resistance (acc. to EN 11998): Class 2 (corresponds to "abrasion resistant" acc. to DIN 53 778)

Colour shade

White and KEIM Palette exclusiv.

Not available in full colours.

In case of coloured paints, only use material from the same batch.

Tinting with KEIM colour concentrates only.

4. Application instructions

Substrate preparation

The substrate must be sound, dry, absorbent, clean and free of dust and grease.

Old, film-forming coatings, which impair vapour diffusion or are not sound, must be removed using KEIM Dispersionsentferner (paint stripper) or by mechanical methods.

Pretreatment with KEIM Soliprim is necessary for plaster or plaster-containing substrates.

Application

KEIM Quarzil can be painted, rolled or sprayed (airless nozzles 0.68 mm or 0.027 inch; see technical data sheet "Airless technique" for further information). For base coats, application with a brush is recommended.

Base coat: KEIM Quarzil, diluted to max. 20% with KEIM Fixativ or KEIM Spezial-Fixativ (25 kg paint plus max. 5 l thinner)

Top coat: KEIM Quarzil undiluted, apply without streaking and spot-free

KEIM Quarzil-Grob is used as a base coat to level out differences in texture or to compensate different absorbing capabilities and/or to close small hairline cracks. ➤

Triple-layer coating is recommended in case of strong differences in texture and/or many hairline cracks:

- Base coat: KEIM Quarzil-Grob, diluted to max. 20 % with KEIM Fixativ or KEIM Spezial-Fixativ (25 kg paint plus max. 5 l thinner)
- Intermediate coat: KEIM Quarzil or KEIM Quarzil-Grob, diluted to max. 20 % with KEIM Fixativ or KEIM Spezial-Fixativ (25 kg paint plus max. 5 l thinner)
- Top coat: Apply KEIM Quarzil undiluted without streaking and spot-free

(KEIM Spezial-Fixativ is recommended as a thinner in case of difficult substrates or project conditions.)

Application conditions

Ambient and substrate temperature > +5°C.
Only paint over touched-up and filled areas after the specified setting time.

Drying times

A drying time of at least 12 hours must be allowed between coats.

Consumption

For two coats on smooth substrates applying KEIM Quarzil:

approx. 0.35 kg	KEIM Quarzil
approx. 0.03 l	KEIM Fixativ or KEIM Spezial-Fixativ

The stated consumption rates are reference figures, depending on the substrate quality and the processing method. Exact consumption values can only be determined by applying to sample areas of the object to be coated.

Cleaning of tools

Clean immediately after use with plenty of water. Keep tools in the paint or in water during breaks.

Third-party additives

No other substances may be added in order to preserve the special characteristics of the KEIM Quarzil system.

5. Packaging

5 kg and 25 kg containers

6. Storage

Shelf life is approx. 12 months if kept cool, but frost-free in tightly closed containers. 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, ceramics, wood, 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.

