



## TECHNICAL DATA SHEET

# KEIM QUARZIL®

## 1. PRODUCT DESCRIPTION

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KEIM Quarzil is a high-quality, ready-to-use silicate-based interior paint according to VOB/C DIN 18363 Para. 2.4.1 (dispersion silicate paint) with absolutely lightfast, inorganic pigments and specially selected mineral fillers. KEIM Quarzil has excellent opacity and a high, permanent whiteness, is non-yellowing and contains only absolutely lightfast, inorganic colour pigments. Due to the extreme water vapour diffusion capacity, condensation on the surface is prevented. The walls are protected from dirt and microorganisms. KEIM Quarzil is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

## 2. FIELD OF APPLICATION

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KEIM Quarzil can be used on all mineral substrates such as mineral plasters, concrete, sandstone or sand-lime brick. KEIM Quarzil is particularly suitable for representative interiors, conference buildings, theatres, public buildings, museums, churches etc. due to its high-quality product formulation.

In combination with the precisely coordinated product components of the KEIM Quarzil system, a wide variety of applications are possible.

## 3. PRODUCT PROPERTIES

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- optimal to spread
- economical in consumption
- non-film forming
- mineral matt
- environmentally friendly
- no fogging-effect
- Cradle to Cradle Certified®-Certificate Silver
- C2C Certified Material Health Certificate™ Gold
- highly permeable
- absolutely lightfast
- anti-fungal and anti-algae thanks to natural alkalinity
- fire behaviour: non-flammable (Class A2-s1,d0 as per EN 13501-1 acc. to classification report)
- no solvents added

### MATERIAL CHARACTERISTICS:

- Density: approx. 1.4 - 1.5 g/cm<sup>3</sup>
- pH value: approx. 11

### CLASSIFICATION:

- Classification according to: DIN EN 13300
- Classification according to VOB: Silicate emulsion paint according to DIN 18363 sec. 2.4.1
- Diffusion-equivalent air layer thickness (sd-value): < 0,01 m
- Standard Diffusion equivalent air layer thickness DIN EN ISO 7783: DIN EN ISO 7783
- Wet abrasion resistance: Class 2
- Test standard Wet Abrasion Resistance EN ISO 11998: EN ISO 11998

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– Contrast ratio (covering power):	Class 1
– Yield of contrast ratio (covering capacity):	4 m <sup>2</sup> /L
– Standard Hiding power ISO 6504-3:	ISO 6504-3
– Gloss level at 85°:	dull matt
– Standard Gloss level ISO 2813:	ISO 2813
– Maximum particle size:	fine
– Standard Maximum particle size EN 1524:	EN 1524

### COLOUR SHADES:

White and colour shades only with purely mineral, light-resistant pigments. Not available in solid colours. For coloured coats, always use material from one batch only. Tint exclusively with KEIM colour concentrates.

## 4. APPLICATION INSTRUCTIONS

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### SUBSTRATE PREPARATION:

Old, film-forming coatings that hinder vapour diffusion or are not load-bearing should be removed with KEIM Dispersion Remover or with mechanical methods.

Pre-treatment with KEIM Soliprim is necessary for gypsum or gypsum-containing substrates.

### APPLICATION CONDITIONS:

Ambient and substrate temperature during application and drying must be  $\geq 5$  °C.

### PREPARATION OF MATERIAL:

Stir up KEIM Quarzil thoroughly before application.

### CONSUMPTION:

approx. 0,175 kg/m<sup>2</sup> for a single coating.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

### APPLICATION:

KEIM Quarzil can be painted, rolled or airless sprayed (nozzle  $\geq 435$  ).

Primer coat: Apply KEIM Quarzil undiluted or diluted with max. 20 % of Spezial-Fixativ or KEIM Fixativ. Brush application is recommended for the base coats.

For levelling differences in structure or for equalising different absorbencies and/or for slurring small hairline cracks, KEIM Quarzil-Grob is used as a primer coat.

Final coat: Apply KEIM Quarzil undiluted.

A three-coat application is recommended in case of strong structural differences and/or many hairline cracks:

Primer coat: KEIM Quarzil-Grob, diluted with max. 20 % with KEIM Spezial-Fixativ or KEIM Fixativ.

Intermediate coat: KEIM Quarzil or KEIM Quarzil-Grob, diluted with max. 20 % with KEIM Spezial-Fixativ or KEIM Fixativ.

Final coat: Apply KEIM Quarzil undiluted.

### DRYING TIME:

Can be overcoated after 12 hours at the earliest (at 23 °C and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

### CLEANING OF TOOLS:

Clean immediately with water.

**5. PACKAGING**

Container content	Unit of measure	Quantity on pallet	Type of container
25	kg	24	bucket
5	kg	70	bucket
2.5	kg	80	bucket

**6. STORAGE**

max. storage time	Storage conditions
12 months	cool frost-free keep container tightly sealed. protected from heat and direct sun.

**7. DISPOSAL**

For disposal information refer to section 13 of the safety data sheet.

Waste code: 08 01 12

**8. SAFETY INSTRUCTIONS**

Please, refer to the Material Safety Data Sheet. EU limit value for this product (Cat. A/a): 30 g/l.

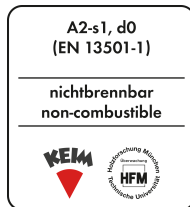
This product contains: 0 - 1 g/l VOC.

**9. GENERAL INFORMATION**

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign additives is not permitted.

**10. CERTIFICATES & QUALITY SEALS**



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 the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.

