



## TECHNICAL DATA SHEET

# KEIM OPTIL-GROB®

## 1. PRODUCT DESCRIPTION

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KEIM Optil-Grob is a ready-to-use, slurry-applied sol-silicate paint for interior use according to DIN EN 13 300 (also fulfils the requirements of DIN 18363 section 2.4.1, dispersion silicate paint). KEIM Optil-Grob is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

## 2. FIELD OF APPLICATION

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KEIM Optil-Grob can be used to apply slurry or slightly granulated coats on all common interior wall and ceiling surfaces. KEIM Optil and KEIM Optil-Grob suitable for demanding interior designs with special requirements in terms of colour intensity and appearance in representative architecture and / or difficult lighting conditions.

Not suitable for:  
wood substrates; lacquered surfaces; substrates with salt efflorescences

## 3. PRODUCT PROPERTIES

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- economical in consumption
- excellent covering power
- low stress
- low environmental impact
- intense and lightfast colour shades
- with MacroFill-Technology for maximum light scattering
- resistant to glancing light
- ultra matt surface
- Cradle to Cradle Certified®-Certificate Silver
- C2C Certified Material Health Certificate™ Gold
- highly permeable
- anti-fungal and anti-algae thanks to natural alkalinity
- fire behaviour: non-flammable
- no preservatives added

### MATERIAL CHARACTERISTICS:

- Density: approx. 1,6 - 1.8 g/cm<sup>3</sup>
- Organic content: < 5 %
- 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
- Water vapour diffusion current density (V-value): > 2000 g/(m<sup>2</sup> · d)
- Diffusion-equivalent air layer thickness (sd-value): < 0,01 m

### COLOUR SHADES:

White, colour shades only with purely mineral, light-resistant pigments. Note: The Optil-Grob-monochrome shade 9019 vermilion can only be produced with an organic pigment. The pigment type used has excellent lightfastness. Gold, silver and

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brilliant white are not available in KEIM Optil-Grob. Tinting only with KEIM Optil-Grob-monochrome shades. For KEIM Optil-Grob we generally recommend factory tinting. In the case of coarse material, the colour shades are lighter than the original shades in the colour fan due to the manufacturing process. Structural colour deviations are possible.

### 4. APPLICATION INSTRUCTIONS

#### SUBSTRATE PREPARATION:

The substrate must be sound, solid, dry, clean and free from dust and grease. No pretreatment is required for gypsum fillers. Optimisation of the surface homogeneity of the subsequent coats, especially under difficult lighting conditions, can be achieved by pre-treatment with KEIM Granital-Dilution. In case of glancing light conditions, ensure adequate substrate preparation, suitable tools and increased care during application.

#### APPLICATION CONDITIONS:

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

#### PREPARATION OF MATERIAL:

Stir up KEIM Optil-Grob thoroughly before application.

#### APPLICATION:

KEIM Optil and KEIM Optil-Grob can be mixed with each other in any ratio. KEIM Optil-Grob can be painted, rolled or airless sprayed (nozzle  $\geq 443$  ). KEIM Optil-Grob can be applied as primer and top coat.

Primer coat: Apply KEIM Optil-Grob undiluted or diluted with max. 10 % of Wasser.

Final coat: KEIM Optil bzw. KEIM Optil-Grob Apply 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.

#### CONSUMPTION:

approx. 0,15 l/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.

#### CLEANING OF TOOLS:

Clean immediately with water.

### 5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
12.5	l	32	bucket
5	l	70	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

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

**EC WASTE CODE:**

Waste code: 08 01 12

## 8. SAFETY INSTRUCTIONS

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Please, refer to the Material Safety Data Sheet..

The paint is formulated without the addition of preservatives. Medium and intensive colour shades may contain traces of pot preservatives.

## 9. GENERAL INFORMATION

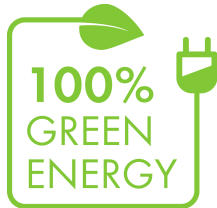
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Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

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

## 10. CERTIFICATES & QUALITY SEALS

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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.