

Keim Optil®

Silica-sol interior paint

Product information:

Keim Optil is a ready-to-use silica-sol interior paint manufactured in accordance with DIN EN 13 300 (also complied with DIN 18 363, 2.4.1 silicate emulsion paint).

Field of Application:

Keim Optil is suitable for all conventional interior wall and ceiling surfaces. Keim Optil is particularly suitable for demanding interior designs with specific requirements for colour intensity and appearance in prestigious architecture and/or difficult lighting conditions. Surfaces with salt efflorescence, enamels, wood and plastic wall coverings are not suitable.

Product Characteristics:

- Intense and lightfast colour shades
- Optimized for application in areas with glancing light
- Abrasion resistant in white and colour shades
- Outstanding hiding power
- Economic consumption
- Highly vapour permeable
- Non-flammable (along the lines of DIN 4102-172)
- Hinders mould growth
- Low stress
- Low environmental impact

Material characteristics:

- Org.content: <5%
- Specific weight: approx. 1.57 g/cm³
- pH-value: approx. 11
- Diffusion-equivalent air-layer thickness: $s_d < 0.01$ m (Corresponds to water vapour diffusion density: $V > 2000$ g/m²d)

Classification according to DIN EN 13 300

- Gloss at 85° (TO iso 2813): dull matt
- Maximum grain size (to EN 21524): fine
- Contrast ratio (hiding power) (to ISO 6504-3) (at a yield of 6.5 m²/l): class 1
- Wet abrasion resistance (to EN ISO 11998): Class 2 (corresponds to “abrasion resistant” to DIN 53778)

Class 2 for white and the monochrome shades 9001 nickel titanium yellow, 9002 ochre, 9003 oxide red, 9005 chromium green, 9006 ultramarine blue, 9009 cobalt blue, 9012 cobalt green, 9018 bismuth yellow, 9019 cinnabar red, 9021 oxide black.

Class 3 for the monochrome shades 9011 oxide orange, 9020 turquoise.

Colour shades:

White and Keim’s “Palette Exclusiv” range.

Additionally available in 12 monochrome shades, in gold and silver and in shades of Keim’s “Avantgarde” colour swatch.

Note: The Optil monochrome shade 9019 cinnabar red can only be produced with an organic pigment. The grade of pigment used has very good light fastness.

Tint only with Keim Optil monochrome shades. Optil should in principle be factory tinted.

Application instructions:

Substrate preparation and application

The substrate must be sound, solid, dry, clean and free of dust and grease. Substrate and air temperature during application and drying > 5°C.

No pre-treatment is necessary for gypsum based fillers.

In the case of glancing light conditions, the substrate must be appropriately prepared, suitable tools must be used and greater care must be taken with application.

Keim Optil may be applied by brush, roller or spraying (0.79 mm nozzle). The Keim Optil roller is particularly recommended for roller application. The product should, in principle, only be diluted with water.

Priming coat:

Dilute 10 ltrs of Keim Optil with at most 1.5 ltrs of clean water.

Finishing coat:

Keim Optil undiluted.

Filling priming coats may be provided with Keim Optil-Grob in the same colour shade.

Drying times:

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

Consumption:

Two coats on a smooth substrate: approx. 220 ml of Keim Optil per m² (corresponds to approx. 4.5 m²/l)



2 pages

PRODUCT
DATA
SHEET

Cleaning of tools:

Clean with water immediately after use.

Packaging:

5 ltr and 15 ltr buckets, monochrome shades also in 1ltr buckets.

Storage:

12 months in sealed container under cool, frost-free conditions. Protect from heat and direct sunlight.

Hazardous substances ordinance class:

n/a

Transport hazard class:

n/a

Disposal

EC Waste Code no. 08 01 12.

Any residues must be emptied out of containers before recycling.

Safety instructions:

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics 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

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