



KEIM CONCRETAL

1. Product Information

Mineral silicate paint system for use on concrete surfaces. Offers water repellency, carbonation protection, vapour permeability and forms a chemical crystalline bond with the substrate. Keim Concretal is made using pure inorganic mineral fillers, earth oxide colour pigments and potassium silicate binder.

2. Field Of Application

In situ and precast concrete elements and structures, blockwork, lightweight concrete, asbestos cement and cementitious building boards, for filling/closing of hairline cracks and equalising of structures.

3. Product Characteristics

- Water vapour permeable
- Colour fast
- Carbonation protection
- Resistant to mould and fungal growth
- Easily cleaned
- Free from solvents
- Free from biocides
- Easy to overpaint
- Non flammable

Material Data:

Resistance to vapour diffusion:
 $s_d (H_2O) = 0.02 \text{ m}$

Density: 1.15-1.45 gm/cm³ depending upon colour and opacity

Water Absorption Co-efficient:
 $W = 0.1 \text{ kg/m}^2 \text{ h}^{0.5}$

Carbonation protection: $s_d (CO_2) = 110 \text{ m}$

Thermal Expansion: Comparable to the mineral substrate to which it is applied onto

Colour Shades:

350 standard colours according to the Keim Palette with specials available.

4. Application

Substrate Preparation:

When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using Keim Mineral Paints may proceed. Keim Mineral Paints should be applied onto wind dry surfaces where the moisture content on or near the surface (to a depth of 5mm approximately) should be no greater than 18% by volume. For on-site purposes a moisture reading may be employed to give a qualitative reading - if the reading is in the green zone decoration may proceed.

Decoration:

Keim Concretal should be applied as a two coat system, the first coat to be diluted with 30% by weight Keim Concretal Dilution and applied by brush or roller, working well into all surfaces. After a minimum period of 12 hours a final coat of Keim Concretal may be applied undiluted in a like manner.

Air and surface temperature >5°C

Consumption:

For two coats approx. 0.35 kg/m² Keim Concretal and 0.06 lt/m² Keim Concretal Dilution.

Consumption rates are offered for guideline purposes only and are quoted for smooth rendered surfaces. Actual rates are the responsibility of the applicator. Project specifications should be referred to for specific rates.

Tools:

Clean immediately after use with water.

5. Packaging

5 & 25 kg containers

6. Storage

Approx. 12 months, if kept cool, but frost free in tightly closed containers.

**7. Identification Ref Ordinance
Of Dangerous Materials**

Not applicable

8. Danger Class In Goodstraffic

Not applicable

9. Safety Instructions

Cover surfaces which are not to be painted, in particular glass, natural stone, ceramics etc. Protect the eyes and skin from splashes. Keep out of reach of children.

Refer to COSHH data sheet.



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