

KEIM CONCRETAL®-C

CO₂, WATER & CHLORIDE PROTECTION

KEIM Concretal C is a waterproof sol-silicate based paint formulated specifically to give protection to concrete against carbonation and chlorides.

Carbonation is a major factor in concrete decay, caused by CO₂ from the atmosphere reducing the alkalinity of concrete, which in turn allows the reinforcing steel to become susceptible to attack by water and oxygen, resulting in corrosion of the steel and spalling of the concrete.

KEIM Concretal C protects concrete from penetration of CO₂ from the air, protects from corrosion and frost damage due to its elevated water repellence and from external chloride corrosion due to the absence of water movement.

KEIM Concretal C protects against all causes of decay in concrete, including carbonation, weathering, water absorption and chloride corrosion.



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TECHNICAL INFORMATION

1 Field of application

For use on most concrete surfaces and mineral substrates. Offers water repellence, high carbonation protection, vapour permeability and lightfast colour pigmentation.

Complies with DIN standard DIN EN 1504-2 sections 1.3, 2.2 and 8.2.

2 Product properties

- Water vapour permeable
- Extremely durable
- Colour fast
- Carbonation protection
- Solvent free
- Highly obliterative

Colour shades

White and in accordance the KEIM Exclusiv Palette with specials available.

Resistance to carbonation: $s_d(\text{CO}_2) = 200 \text{ m}$

Resistance to vapour diffusion: $s_d(\text{H}_2\text{O}) = 0.1 \text{ m}$

Water absorption coefficient: $W = 20 \times 10^{-3} \text{ kg/m}^2 \text{ h}^{0.5}$

VOC Content: 0-8g/l VOC

3 Application instructions

Application

KEIM Concretal C should be applied as a two coat system applied by brush or roller, working well into all surfaces, with a minimum period of 12 hours between coats.

Consumption

Approx. 0.3kg/m² KEIM Concretal C for a smooth surface.

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

Cleaning of tools

Clean immediately after use with water.

4 Packaging

5kg & 20kg containers