

KEIM CONCRETION-W KEIM CONCRETION-W Grof

Product Description

Sol-silicate protective concrete paint system.
Offers water repellency, vapour permeability and forms a chemical crystalline bond with the substrate. KEIM CONCRETION-W is made using pure inorganic mineral fillers, earth oxide colour pigments and potassium silicate binder.

Field of application

In-situ and precast concrete elements and structures, blockwork, lightweight concrete, asbestos cement and cementitious building boards. KEIM CONCRETION-W is used to protect concrete surfaces on exterior facades and interior concrete surfaces with a protective action providing protection from water and weathering by silicification and protection from chlorides.

KEIM CONCRETION-W GROF can be used as a ground layer.

Product properties

KEIM CONCRETION-W protects concrete from weathering and penetration of liquid water while simultaneously providing very good water vapour diffusion, it prevents water formation within concrete and thus corrosion of reinforcement steel (corrosion protection by keeping concrete dry).

KEIM CONCRETION-W prevents penetration of chloride salts and other pollutants, it has a matt mineral finish and preserves concrete surface textures.

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

Material characteristics

Resistance to vapour diffusion :	sd (H ₂ O) = 0.02 m
Density :	1.15-1.45g/cm ³ depending upon colour and opacity
Water Absorption Co-efficient :	W = 0.1 kg/m ² h ^{0.5}
Carbonation protection :	sd (CO ₂) = 110 m
Thermal Expansion :	Comparable to the mineral substrate onto which it is applied.

Colour shades

In accordance with the Keim Exclusiv swatch, with specials available.

Application instructions

Substrate preparation

All loose, flaking and unstable material must be identified and then thoroughly removed, all surfaces must be thoroughly washed down with clean cold water to remove all surface dirt and dust. When all surfaces are clean, sound, wind dry, dust free and free from all surface contaminants, decoration using Keim Mineral Paints may proceed.

Application

KEIM CONCRETION-W should be applied as a two or three coat system, the first coat(s) to be diluted with up to 10% by weight Keim Concretion Dilution and applied by brush or roller, working well into all surfaces. After a minimum period of 12 hours a final coat of KEIM CONCRETION-W may be applied undiluted in a like manner.

Application conditions

Ambient and substrate temperature above 5°C and below 30°C. Do not apply in direct sunlight or onto sun-heated surfaces, nor if it is raining or if there is an immediate likelihood of rain.

Consumption

2 coats system with KEIM CONCRETION-W

approx. 0,35 kg/m² KEIM CONCRETION-W

approx. 0,02 l/m² Keim Concretion Dilution

2 coats system with KEIM CONCRETION-W GROF as ground coat

approx. 0,20 kg/m² KEIM CONCRETION-W GROF

approx. 0,20 kg/m² KEIM CONCRETION-W

approx. 0,02 l/m² Keim Concretion Dilution

3 coats system with KEIM CONCRETION-W

approx. 0,45 kg/m² KEIM CONCRETION-W

approx. 0,03 l/m² Keim Concretion Dilution

3 coats system with KEIM CONCRETION-W GROF as ground and intermediate coat

approx. 0,35 kg/m² KEIM CONCRETION-W GROF

approx. 0,20 kg/m² KEIM CONCRETION-W

approx. 0,03 l/m² Keim Concretion 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.

Cleaning of tools

Clean immediately after use with water

Packaging

5 and 25 kg containers for KEIM CONCRETON-W et GROF

5 and 20 l for Keim Concreton Dilution

Storage

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

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.

Refer to COSHH data sheet

Remarks

The current data sheet replaces any previous version.

Our advice and information are given in good faith and depending on the latest developments of our products. We guarantee the consistent quality of our products, but do not accept any liability concerning their application. In any case, we do recommend to consider the type of substrate and the climatic conditions before applying our products or to apply a test surface in order to analyze the suitability of the product for the given substrate. In case of doubt regarding the substrate, consult our technical service department.