

# Keim Concretal Paint

## Product Information:

Keim Concretal Paint is a silicate based, ready to use covering concrete protection coating.

## Field Of Application:

Keim Concretal Paint is used to protect concrete facades as well as higher stressed interior concrete areas, for example parking garages, etc. The paint is a water protection as well as a weathering protection. For further increasing the water repellence, a hydrophobic substrate pre-treatment with Keim Silangrund (Keim Silan Primer) or Keim Silan 100 can be employed. The combination of Keim Silan 100 corresponds to the "protection rule W" of Rili-SIB (Guidelines for protection and maintenance of concrete structural parts, German Committee for Reinforced Concrete). Keim Concretal Paint is suitable for horizontal and inclined areas.

## Product Characteristics:

Keim Concretal Paint protects the concrete surface from weather and aggressive atmospheric contaminants and is remaining high vapour permeable from the inside to the outside.

The surface is mineral matt and concrete texture is kept. Hair line cracks can be closed by using Keim Concretal Paint Grob.

## Colour Shades:

According to our colour swatch Keim palette exclusive.

## Material Data:

Density: 1.6 g/cm<sup>3</sup>

Diffusion values for protection against carbonation:

Carbonation resistance:  $S_d(\text{CO}_2)=100\text{m}$   
 Water absorption co-efficient:  $w=0.18 \text{ kg/m}^2\text{h}0.5$   
 Vapour diffusion resistance:  $S_d(\text{H}_2\text{O})=0.18\text{m}$

Diffusion values for protection against moisture:

Water absorption co-efficient:  $w=0.08 \text{ kg/m}^2\text{h}0.5$   
 Vapour diffusion resistance:  $S_d(\text{H}_2\text{O})=0.04\text{m}$

## Packaging:

Concretal Paint: 5 kg and 25 kg  
 Concretal Paint Grob: 5 kg and 25 kg  
 Concretal Dilution: 5 ltr and 20 ltr

## Application:

The substrate must be dust-free and dry. Loose parts, dust oil and other release agents, moss and algae as well as further organic bound old paint coats have to be removed.

Formwork oil residues, in the case of new concrete, have to be removed with Keim Betonschnellreiniger (Keim Concrete Cleaner).

Clean, solid concrete needs no pre-treatment.

For highly absorbent substrates or highly weather-influenced areas, a further hydrophobic substrate pre-treatment with Keim Silangrund or Keim Silan 100 (according to ZIV-SIB 90) can be applied before the application of Keim Concretal Paint. The following base coat with Keim Concretal Paint or Keim Concretal Paint Grob shall be applied after approx. 4 hours (for the pre-treatment with Keim Silangrund) after approx. 4-24 hours (for the pre-treatment with Keim Silan 100).

A pre-filing with Keim Concretal Dilution may be done on soft and porous substrates.

One or two coats of Keim Concretal Paint Grob may be applied for equalising structural differences and filling of hairline cracks.

## Processing:

Keim Concretal Paint Grob is to be applied by brush. Keim Concretal Paint may also be applied by roller, spraying equipment, airless (0.79 mm nozzle).

## Coating system:

2 coat system:

Base coat: 25kg Keim Concretal Paint or Keim Concretal Paint Grob diluted with 5-10 litre Keim Concretal Fixativ.  
 Last coat: Keim Concretal Paint undiluted.

3 coat system:

Base coat: 25 kg Keim Concretal Paint Grob diluted with 10-15 litre Keim Concretal Dilution.  
 Intermediate coat: 25 kg keim Concretal Paint Grob diluted with 5-10 litre Keim Concretal Dilution.  
 Last Coat: keim Concretal Paint undiluted.

The diluted Keim Concretal Paint and Keim Concretal Paint Grob is to be stirred well before and during application.

## Working conditions:

Do not apply Keim Concretal Paint with substrate and ambient temperatures under +5°C and above +30°C and above 80% relative air humidity. Apply while dry conditions only. Do not apply in strong direct sunshine, to surfaces warmed by the sun or under strong wind.

**Waiting Periods:**

Between the individual coats, approx 24 hours, after Keim Silan-grund approx 4 hours and after Keim Silan 100 approx 4-24 hours.

**Consumption:**

2 coat system:

0.35 kg/m<sup>2</sup> Keim Concretal Paint

0.05 ltr/m<sup>2</sup> Keim Concretal Dilution

Base coat with Keim Concretal Grob, Last coat with Keim Concretal Paint:

0.20 kg/m<sup>2</sup> Keim Concretal Paint Grob

0.20 kg/m<sup>2</sup> Keim Concretal Paint

0.05 kg/m<sup>2</sup> Keim Concretal Dilution

3 coat system:

0.45 kg/m<sup>2</sup> Keim Concretal Paint

0.10 ltr/m<sup>2</sup> Keim Concretal Dilution

Base and intermediate coat with Keim Concretal Grob, Last coat with Keim Concretal Paint:

0.35 kg/m<sup>2</sup> Keim Concretal Grob

0.20 kg/m<sup>2</sup> Keim Concretal Paint

0.10 ltr/m<sup>2</sup> Keim Concretal Dilution

The consumption rates given are approximate guidelines only and are valid for smooth fair-faced surfaces. They depend on the substrate and individual project conditions, as well as the application methods and must be verified by a trial application.

**Layer thickness (dry material):**

Approx. 100-150 µm with a two coat system of Keim Concretal Paint on smooth surface.

**Tools:**

Clean immediately after use with water.

**Storage:**

Shelf life 12 months in tightly closed containers if stored cool but frost-free. Protect from heat and direct sun.

**Identification Ref Ordinance of Dangerous Goods:**

Not applicable

**Product Code:**

M-SK 01

Danger Class in Goods Traffic

**Not applicable**

**Safety Instructions:**

Cover surfaces which are not to be painted, in particular glass, natural stone, ceramic etc. it is recommended to wear suitable protective clothing for eyes and skin and do not eat, drink and smoke while working. Keep out of reach of children.

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