

Product information / Technical advisory leaflet

Kanaldicht [Sewer tight] – rehabilitation coating

Description:

"Kanaldicht" is a water-dilutable, solvent-free plastic dispersion with very good water and alkali resistance, excellent ductility and permanent elasticity. The dry film is watertight and water-resistant. As filler, stable rubber recycling particles are incorporated, which guarantee high layer construction, anti-slip property and tightness. "Kanaldicht" forms a high adhesive tensile strength on many bases (e.g. mineral bases, tiles, metals, wood, plastics). In completely cured condition the coating offers a high protection against mechanical damage (stone chip, scratches etc.).

"Kanaldicht" is supplied in a paste-like condition and can thus be applied using a spatula, is brushable and sprayable (airless). To develop the highest longevity on surfaces "Kanaldicht" is provided with UV-stable pigments and special types of rubber. Coating is also possible on wet and loose bases. "Kanaldicht" does not have to be secured against wind loads. Depending on the number of layers and overall layer thickness of up to 8 mm is possible.

Properties:

"Kanaldicht" possesses an outstanding resistance to water and alkali and a tear ductility of 200 % for crack bridging of up to 10 mm. The system remains permanently elastic with low minus temperatures. Single-component, water-based liquid plastic, which is applied as liquid film. The sealing system is free of labelling and is also free of solvents (VOC).

Information on application:

"Kanaldicht" is applied in trenches as "liquid film" and protects the areas underneath from infiltrating percolating/storm water or wastewater. The finished coating furthermore forms a protective effect against mechanical impacts (shock and scratch protection). A priming coat is required for corroding metals.

Product data:

- Appearance: Depending on the application method forms a smooth, paint-like (airless) or rough, pigmented (painted, smoothed) surfaces.
- Colour: Light grey
- Theoretical spreading rate: At 1.0 mm TSF*: ca. 1.2 kg / m² (0.8 m² / kg),
at 2.1 mm TSF*: ca. 3.4 kg / m² (0.3 m² / kg),
with coarse structured and loose bases a higher imperviousness is achieved via a greater coating thickness.
*TSF: "Trockenschichtfilm" = Dry layer film
- Supplied viscosity (DIN 53211): Pasty
- Flash point: : > 23 °C
- Fire classification: B2
- Density: 1.7 g/cm³
- Temperature stability: Dry film: - 30 °C to + 120 °C, short-term + 150 °C

- Drying time at 20°C (DIN 53150): Depending on atmospheric humidity, temperature and absorptive capacity of the substrate
 - 3-4 hrs: Rain resistant and dust dry (TG*1)
 - 24 hrs: Ca. 1 mm is dried through
 - 48-72 hrs: Mechanically resilient (TG*6 = 5 kg/cm²), resistant to water
 - 10 days: Complete tensile adhesive strength
- VOC : **TG: "Trockengrad" = Degree of dryness
Wb Kat. g/l/2010 permitted 30 g/l, contains 2.1 g/l

Surface preparation:

Surfaces are to be dirt, dust and grease-free, slight residual moisture is not damaging; loose surfaces are, as far as possible to be compacted and smoothed; no dewed/iced surfaces, object temperature min. + 5 °C.

Application details:

- Application method: Filling, painting, airless spraying (435 nozzle, working pressure 150 bar / dynamic pressure 180 bar, pump capacity min. 4 lpm)
- Thinning: Can be thinned using water
- Reworkable: With itself
- Application conditions: Surface temperature min. + 5°C.
Do not work with precipitations on free surfaces!
- Dry layer thickness: Per layer up to max. 2 mm (fluid variant),
per layer up to max. 20 mm (spatula variant)
- Processing temperature: + 5 ° C to + 30 ° C
- Processing: Filling, painting, airless: in supplied condition,
as primer on concrete surfaces with 10 % water thinning and work in using wide brush – drop in viscosity with thinning!
- Processing information:
 - Stir well before use.
 - Water-thinned coating using a wide brush is recommended as intake primer on mineral and open-pored surfaces.
 - Do not apply to bare steel surfaces (danger of corrosion through water component and pH-value 8). A rust protection primer is, at all costs, to be applied.
 - In particular on vertical surfaces do not apply with more than 2 mm (fluid variant)! There is a danger of runs and dry cracks in the top layer.
 - With airless spraying working in cross vein is recommended.
 - After drying out ca. 4 h the product can be reworked using itself or using ColorCover.
 - The wet colour film may not be loaded with water for 48 hours.
There is a danger of washing-out!
 - The surfaces treated are mechanically loadable after ca. 10 days (please check the complete curing depending on the base and the temperature level).

Postprocessing:

- Clean working equipment using water immediately after processing.
- Seal unused material in the tub and store frost-free in a cool and dry place.
- Allow empty containers to dry out and dispose of with domestic garbage.

Safety information:

All safety regulations on the packaging, the technical product information and the safety data sheets as well as relevant local, national and EU Regulations are to be complied with.

Hazard information/Safety recommendations:

- S 25 Avoid contact with eyes
- S 36/37 Wear suitable protective gloves (protective clothing) when working
- S 61 Avoid release into the environment

Storage:

Store in a cool location at + 15 °C to + 25 °C, absolutely frost-free! Direct exposure to sunrays is to be avoided.

System example on mineral surfaces:

1st coating: If required, prime with thinned "Kanaldicht" (10% water)

2nd coating: 1000 µm "Kanaldicht"

3rd coating: 1000 µm "Kanaldicht"

Packaging:

5 kg plastic pail

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