

KEMPEROL 1K-SF waterproofing



Uses

- As surface waterproofing, for creating connections and details in combination with KEMPEROL non-woven fabric
- For new buildings and repair work
- Can be applied to practically any substrate

Characteristics

- Cold to process
- Water vapor diffusible
- Crack-bridging
- Root-resistant according to FLL test
- Accessible for maintenance purposes
- Solvent-free
- Low-odor
- UV-resistant
- Environmentally declared according to valid international standards (EPD)
- EMICODE EC1 PLUS
- 1-component
- CE marking
- Red algae resistant
- On the basis of polyurethane
- Insensitive to humidity
- Alkali-resistant
- For indoor use

Pack sizes

6,5 kg, 14 kg

Shelf Life

Can be stored cool, frost-free, dry and unopened. Best before: see container label.

Usage guide

Depending on the nature of the substrate : min. 3,0 kg/m²

Properties

Form	Liquid
Standard colour	Anthracite Light grey
Workability time*	approx. 30 min
Rainproof after*	approx. 1 h
Can be walked on after*	approx. 12 h
Cured after*	approx. 1-2 d
Further coating after*	approx. /

* Values obtained at a temperature of 23 °C - 50% rel. humidity. These values vary depending on the weather conditions, such as wind, humidity and temperature.

CE marking

Component to	ETA 13/0656
Water vapor diffusion resistance coefficient	$\mu \approx 2100$
Resistance to wind loads	≥ 50 kPa for tear-resistant substrates
External fire performance	B _{ROOF} (t1) **
Reaction to fire	E ***
Statement to dangerous substances	does not contain any
Working life	W3
Climatic zones	M and S
Imposed loads	P1 to P4
Roof slope	S1 to S4
Lowest surface temperature	TL4
Highest surface temperature	TH4

** Classification in accordance with EN 13501-5
 *** Classification in accordance with EN 13501-1.

Application

Preparing the substrate

The substrate must be dry, sound and free from any material that would hinder adhesion.

For some substrates, e.g. concrete and screed surfaces, a primer may not be necessary depending on the load. In the case of concrete and screed surfaces, care must be taken to ensure that there is no moisture penetration from the rear of the substrate. Generally, the priming recommendations for KEMPEROL 1K-SF Waterproofing have to be observed.

Only apply when the substrate and ambient temperatures are $\geq +5$ °C.

When executed, the surface temperature must be 3 K above the dew point. If the dew point is undershot, a moisture film, which has a separating effect, can form on the surface to be processed (see Technical Information TI 16).

Due to the moisture tolerance of the material, KEMPEROL 1K-SF it can be processed on matt damp substrates. However, the surface must be free of standing water.

Mixing

Open the container and stir the material thoroughly and carefully.

Use

Apply approx. 2/3 of KEMPEROL 1K-SF Waterproofing, roll in the KEMPEROL 165 fleece and embed it using a nylon roller. Ensure the fleece sections have a 5 cm overlap and are free from bubbles. Apply the remaining 1/3 of KEMPEROL 1K-SF Waterproofing onto the still wet first layer, ensuring saturation.

Connections to door and window elements etc. with a height of <15 cm (from upper edge of coating) should have at least 5 cm of overlap. Connections and joints to third party products have to be produced with an overlap of at least 10 cm.

Avoid applying the material beyond the area covered by the fleece.

When using the 6.5 kg container indoors, the limit value for methanol is complied with in cross-ventilated work areas.

Work interruption and further coating

In case of interruption of work can be connected directly to the KEMPEROL 1K-SF Waterproofing within 24 hours. Standing time greater than one day: Thorough machine sanding of the existing work area with sandpaper (P80 - P100).

PPE

Personal protective equipment should be worn. We recommend a hand protection and skin protection plan adapted to the workplace. Clean the tools immediately after use with KEMCO MEK Cleaning Agent.

Note

Please consider the following technical information:

- TI 21 - substrate preparation
- TI 34 - Correct masking of the surface to be treated with KEMPEROL

GISCODE

RSP20

Important notes

The safety data sheets, the labeling of the containers, the hazard warnings and the safety instructions on the containers must be observed during transport, storage and processing. The BG-Chemie data sheets must be observed during processing.

Please allow for proper ventilation during and after application/curing.

Disposal

Dispose of in accordance with the official regulations. Further information on disposal can be found in the respective safety data sheets, Section 13.

General information

Changes to the colour caused by weather conditions or UV rays do not influence the technical parameters. The times given above are reduced with higher and increased with lower ambient and substrate temperatures.

No substances of other systems may be mixed into the products of the KEMPER SYSTEM.

Only for commercial use.

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