

KEMPEROL 1K-SF waterproofing



Uses

- For the waterproofing of surfaces, for connections and details in combination with KEMPEROL Fleece
- For new buildings and repair work
- Can be applied to practically any substrate

Features

- Cold applied
- Water vapour permeable
- Crack bridging
- Root resistant according to FLL-testing
- Can be walked on for maintenance
- Solvent-free
- Odourless
- UV resistant
- 1-component
- CE marking
- Based on polyurethane
- Insensitive to moisture
- Alkali resistant

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 and condition 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.

Classes according to EAD 030350-00-0402 (formerly ETAG 005)

| | |
|-------------------------------------|---|
| Component to 2 | ETA 13/0656 |
| Water vapour diffusion factor μ | ~ 2100 |
| Resistance to wind loads | ≥ 50 kPa for tear-resistant surfaces |
| 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.

No primer is needed for some surfaces, such as concrete and screed surfaces, depending on the load. In case of concrete and screed surfaces, please ensure that there is no rising damp of the surface. 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 slightly damp substrates. However, the area must be free of stagnant water.

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.

Job interruptions and further coating:

Interruptions of less than 24 hours: continue on top of the KEMPEROL 1K-SF Waterproofing system; no preparations necessary. Interruptions of more than 24 hours: Sand the surface of the previously coated area with a grinder and sandpaper (P80-100).

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

Important notes

The safety data sheets, identification of the containers, hazard statements and the safety recommendations on the containers must be observed during transportation, storage and application. The BG-Chemie technical data sheets must be observed during application.

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

For outdoor use only.

Disposal

| | |
|--------|--------------|
| Liquid | EAK 08 04 09 |
| cured | EAK 08 04 10 |

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.

Our technical data sheets / technical information and application instructions reflect the current level of knowledge in our company and the experience with our products. In each case, the new edition supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practise. The latest version can be retrieved from the KEMPER SYSTEM Login section. When using our products, a detailed, object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults, and this only if our relevant product has been used and applied according to the instructions in our technical data sheets. Correct application of our products therefore falls entirely within the scope of liability and responsibility of the user (contractor). Our products are sold exclusively on the bases of our conditions of sale and delivery.

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