

KEMPEROL 1K-PUR 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
- UV-resistant
- Environmentally declared according to valid international standards
- 1-component
- CE marking
- Red algae resistant
- Resin base: Polyurethane resin

Pack sizes

7 kg and 15 kg container

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: at least 3,4 kg/m² depending on the layer thickness (see Technical Information TI 03 - Layer thicknesses according to regulations).

Properties

Form	Liquid
Standard colour	Pale grey
Special colours	On request
Workability time*	approx. 30 min
Rainproof after*	approx. 60 min
Can be walked on after*	approx. 24 h
Cured after*	approx. 2–3 d**
Further coating after*	approx. 3/7 d (siehe Verarbeitung) ***

* 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.
** with KEMPERDUR Surfacing, see corresponding Technical Data Sheet.

CE marking

Component to	ETA 03/0043
Water vapor diffusion resistance coefficient	$\mu \approx 2300$
Resistance to wind loads	≥ 50 kPa
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

Substrates must be dry (residual moisture in concrete in the upper 2 cm < 5%), capable of withstanding loads and free from materials that may hinder adhesion, and must be appropriately prepared.

Prior to the application of the KEMPEROL 1K-PUR Waterproofing, prime with KEMPERTEC Primer according to the primer recommendation.

Only apply when the substrate and ambient temperatures are $\geq +5^{\circ}\text{C}$.

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).

At temperatures below $+10^{\circ}\text{C}$ it is recommended to add KEMCO 1K Thinner.

Mixing

Open the container and stir the material thoroughly and carefully.

Use

Apply approx. 2/3 of KEMPEROL 1K-PUR 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-PUR Waterproofing onto the still wet first layer, ensuring saturation.

Connections to door and window elements etc. with a height of $<15\text{ cm}$ (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.

The thickness of the membrane needs to meet minimum requirements defined in the European Technical Approval ETA. National regulations must be followed.

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

Alkaline protection

The waterproofing is only conditionally resistant to alkalis. Therefore, if long-term exposure is expected KEMPERTEC EP5 primer or KEMPERTEC AC Primer applied to the waterproofing and scattered with KEMCO NQ 0712 Natural Quartz (see Technical Information TI 15- Alkalinity).

Work interruption and further coating

The is KEMPEROL 1K-PUR Waterproofing after 3 days with KEMPERDUR Deko or KEMCO 1K Primer incl. KEMCO NQ 0712 Natural Quartz as bonding bridge under KEMCO Decor Stone / Natural Stones can be further coated as a bonding bridge, with other suitable KEMPER SYSTEM products after 7 days.

Standing time greater than 3 to 14 days: Cleaning the work area with KEMCO MEK Cleaning Agent.

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

Observe the following Technical Information:

- TI 03 - layer thicknesses according to guidelines
- TI 15 - alkalinity
- TI 21 - substrate preparation
- TI 23 - solvent-based products
- TI 34 - Correct masking of the surface to be treated with KEMPEROL

Important notes

The applicable "rules of application" in its current version as well as the "standard rules of technology" and the state of the art for the respective task apply during waterproofing production. For chemical resistance, see the Chemical Resistance List A-Z.

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.

Disposal

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

GISCODE

PU50

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 our technical application advice only reflect the current state of knowledge in our company and our experience with our products. With each new edition, the previous technical information loses its validity. It is therefore essential that you always have the latest data sheet to hand. The latest version can be downloaded from kemperol.de under Media > Downloads. When applying and using our products, a detailed, object-related, qualified check is required in each individual case to determine whether the respective product and/or the application technology meets the specific requirements and purposes. We are only liable for the freedom from defects of our products, but only if our re-

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