

KEMPEROL 1K-PUR waterproofing



Uses

- As surface seal, for making connections and details in conjunction with the KEMPEROL fleece
- For new construction and remedial projects
- 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
- UV resistant
- Environmental Declaration in accordance with valid international standards
- single-component
- CE-Kennzeichnung
- Based on: Polyurethane resin

Pack sizes

7 kg, 15 kg, 25 kg in a 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.

Test results according to ETAG 005

Component to 2	ETA 03/0043
Water vapour diffusion factor μ	~ 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

The substrate must be dry (in concrete, the residual moisture in the upper 2 cm must be < 5 %), sound and free from any material that would hinder adhesion.

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 $\geq +5$ °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 $+10$ °C, we recommend to add the KEMPERTEC 1K thinner.

Application

Apply approx. 2/3 of KEMPEROL 1K-PUR Waterproofing, roll in 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 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.

Alkaline protection

The waterproofing provides limited alkaline resistance. Therefore, if a sustained load is expected, apply KEMPERTEC EP Primer, KEMPERTEC EP5 primer or KEMPERTEC AC Primer to the waterproofing and scatter KEMCO NQ 0712 Natural Quartz (refer to Technical Information TI 15 - Alkalinity).

Job interruptions and further coating:

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

Interruptions of more than 3 up to 14 days: Clean the working 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. KEMCO MEK Cleaning Agent.

Note

Please consider the following technical information:

- TI 03 - layer thicknesses according to guidelines
- TI 15 - alkalinity
- TI 21 - substrate preparation
- TI 23 - solvent-based products

Important notice

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. During processing, the Information sheets of the BG-Chemie (Liability Insurance Association of the Chemical Industry) must be observed.

Disposal

liquid	EAK 08 04 09
cured	EAK 08 04 10

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 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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