

KEMPEROL 2K-PUR waterproofing



Uses

- As surface sealing, for the establishment of connections and structural details in connection with KEMPEROL Fleece
- As a waterproofing system under tarmac layers
- Suitable for indoor and outdoor applications
- For new construction and remedial projects
- Can be applied to practically any substrate

Features

- Odourless
- Cold applied
- Water vapour permeable
- Crack bridging
- Root resistant according to FLL-testing
- Can be walked on for maintenance
- Solvent-free
- UV resistant
- Environmental Declaration in accordance with valid international standards (EPD)
- 2-component
- CE-Kennzeichnung
- Based on: Polyurethane resin

Pack size

10 * 1 kg sachets in a box

2 * 2,5 kg sachets in a plastic bucket

12,5 kg in a container

Shelf Life

Can be stored unopened in a cool, dry, frost-free place. Use by: see label on pack.

Usage guide

Depending on the nature and condition of the substrate: 3,0 - 3,6 kg/m² depending on layer thickness (refer to Technical Information TI 03 layer thicknesses according to guidelines).

Properties

Form	Comp. A liquid
Standard colour	Yellow-grey Green-grey Anthracite
Special colours	On request
Workability time*	approx. 30 min
Rainproof after*	approx. 2 h
Can be walked on after*	approx. 16 h
Cured after*	approx. 72 h
Further coating after*	approx. 16 h
with mastic asphalt after	approx. 16 h
Short term temperature resistance	re- 250 °C

* 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 03/0044
Water vapour diffusion factor μ	~ 3100
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
2006: DIN 4102-7 - resistance to spreading fire and radiant heat.

*** Classification in accordance with EN 13501-1.
2006: DIN 4102-1. Classification is done in class B2.

Laying

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.

On some substrates, no priming of the full surface is necessary. Generally, the priming recommendations for KEMPEROL 2K-PUR Waterproofing have to be observed.

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

During application the surface temperature must be 3 K above the dew point. If the dew point is not reached, the surface to be primed can form a moisture film and cause separation (DIN 4108 - 5 Tab.1).

Mixing

Sachet

Remove the sachet from the aluminium packaging. Knead component A thoroughly. Open the centre seam which divides the two components and mix components A and B.

Knead the sachet rapidly (approx. 1 min.) until you have a homogeneous and streak-free Waterproofing mixture.

To prevent mixing errors, the mixture should be placed in another container and re-mixed.

At temperatures below 10°C, add KEMPEROL 2K-PUR Speedshot and mix thoroughly.

Plastic container

KEMPEROL 2K-PUR Waterproofing component A must be stirred thoroughly. At temperatures below 10°C add KEMPEROL 2K-PUR Speedshot to component A for KEMPEROL 2K-PUR Waterproofing and mix thoroughly. Add component B to component A and mix until you have a streak-free mixture.

To prevent mixing errors, the mixture should be placed in another container and re-mixed.

Application

Apply approx. 2/3 of KEMPEROL 2K-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 2K-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 time until the next coat can be applied can be shortened by adding KEMPEROL 2K-PUR Speedshot. Interruptions of more than 24 hours up to 14 days: Clean the working area with KEMCO MEK Cleaning Agent. Interruptions of more than 14 days: Sand the surface of the previously coated area with sandpaper (P80-P100).

PPE

Personal protective equipment should be worn. Clean the tools with KEMCO MEK Cleaning Agent immediately after use. Clean your hands.

Note

Please consider the following technical information:

- TI 03 - layer thicknesses according to guidelines
- TI 15 - alkalinity
- TI 21 - substrate preparation

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 labelling of the containers, the hazard warnings and the safety recommendations on the containers shall be observed for transport, storage and application. The data sheets published by the Professional Association of the German Chemical Industry shall be observed for the application.

Multi-component polyurethane, polyester, epoxy and methyl methacrylate resins react under heat development. After mixing the components, the product must not remain in the mixing container for longer than the workability time. Non-observance may cause heat and smoke development and may, in extreme cases, even result in a fire.

Disposal

Comp. A+B	liquid	EAK 08 04 09
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Comp. A+B cured EAK 08 04 10

GISCODE

PU40

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.

KEMPER SYSTEM products must not be mixed with other manufacturers' products.

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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