

KEMPEROL PU Aqua



Uses

- As surface waterproofing, for creating connections and details in combination with KEMPEROL non-woven fabric
- As a construction product for the repair of roof and building sealing in connection with KEMPEROL fleece
- For new buildings and repair work
- Can be applied to practically any substrate

Characteristics

- UV-resistant
- Solar reflectance index (SRI value) based on ASTM E1980-11: 101
- Thermal emissivity based on ASTM C1371-15: 89 %
- Solar radiation reflectance based on C1371-15: 81 %
- Cold to process
- Water vapor diffusible
- Crack-bridging
- Accessible for maintenance purposes
- Solvent-free
- 1-component
- Ready-to-use
- Lightfast

Pack sizes

15 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 : min. 2,5 kg/ m²

Properties

Form	Liquid
Standard colour	White
Workability time*	approx. 30 min
Rainproof after*	approx. 5 h
Can be walked on after*	approx. 12 h
Cured after*	approx. 1-2 d
Further coating after*	approx. 1 d

* 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

	ETA 18/0161
Water vapor diffusion resistance coefficient	$\mu \approx 2870$
External fire performance	B _{ROOF} (t1)
Reaction to fire	E
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

Application

Preparing the substrate

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

Only apply at substrate and ambient temperatures of > +10 °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).

Mixing

Open the container and stir the material thoroughly and carefully.

Use

Apply approx. 2/3 of KEMPEROL PU Aqua, 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 approx. 1/3 of KEMPEROL PU Aqua onto the still wet first layer, ensuring saturation.

Material, ambient air and substrate temperature must be at least +10°C at a relative humidity < 75% to max. +40°C at a relative humidity < 85%. When executed, the surface temperature must be 3 K above the dew point.

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.

PPE

Personal protective equipment should be worn. Always clean tools immediately after use with water.

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 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.

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 respective product has been used and processed in accordance with our processing guidelines in the technical data sheets. The proper and professional processing of our products is therefore the sole responsibility and liability of the user (processor). Our products are sold exclusively on the basis of our terms and conditions of sale and delivery.

Issued: Vellmar, 2024-03-12