KEMPEROL V 210 M waterproofing

Uses

- Only suitable for outdoor use
- In combination with KEMPEROL non-woven fabric
- For application of larger areas
- For application under green roofs
- For new buildings and repair work
- Can be applied to practically any substrate

Characteristics

- Long-term proven since 1970
- Cold to process
- Water vapor diffusible
- Crack-bridging
- Root-resistant according to FLL test
- Third-party monitored
- Accessible for maintenance purposes
- UV-resistant
- 2-component
- CE marking
- Red algae resistant
- Resin base: Polyester resin

Pack sizes

KEMPEROL V 210 M waterproofing:

Component M 19.4 kg / 9.7 kg

KEMPEROL CP catalyst powder Component C 2 x 0.3 kg / 0.3 kg

Shelf Life

Can be stored cool, frost-free, dry and unopened. Best before: see container label.

KEMPEROL CP catalyst powder should be stored separately.

Usage guide

Depending on the condition of the substrate: at least 2,8 kg/m² according to the layer thickness (see Technical Information TI 03 - Layer thicknesses according to the regulations).

Properties

Form	Comp. M liquid
	Comp. C powder
Standard colour	Grey
Special colours	On request
Workability time*	approx. 15 min
Rainproof after*	approx. 30 min
Can be walked on after*	approx. 6 h
Cured after*	approx. 3 d**
Further coating after*	approx. 6 h ***

* 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 Surfacings, see corresponding Technical Data Sheet.

CE marking

Component to 2	ETA 03/0025
Water vapour diffusion factor µ	~ 10960
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, sound and free from any material that would hinder adhesion.

Prior to the application of the KEMPEROL V210 M Waterproofing , prime with KEMPERTEC Primer according to the primer recommendation.

Only apply when the substrate and ambient temperatures are ≥ +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 ambient temperatures above +25 °C KEMPEROL UP-I inhibitor in the KEMPEROL V210 M Waterproofing component ;M must be added.

Mixing

Open the container and stir the material thoroughly and carefully.

KEMPEROL V210 M Waterproofing must be poured into a separate container to carry out mixing. In a mixing ratio of 19.4 kg KEMPEROL V210 M Waterproofing with 0.6 kg KEMPEROL CP catalyst powder Mix the component C intensely (approx. 2 min.).

Use

Apply approx. 2/3 of KEMPEROL V210 M Waterproofing and embed the KEMPEROL Fleece 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 V210 M Waterproofing “fresh-on-fresh” 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.

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

Alkaline protection

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

Work interruption and further coating

Standing time greater than 12 hours: Intensive cleaning of 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

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
- 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.

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. M	liquid	EWC 08 04 09
Comp. M	cured	EAK 17 02 03
Comp. C	Catalyst powder	EWC 16 05 08

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.

Issued: Vellmar, 2023-03-30