

## KEMPEROL V 210 M waterproofing



### Uses

- Suitable for outdoor applications
- In connection with KEMPEROL Fleece
- For application of larger areas
- For application under green roofs
- For new construction and remedial projects
- Can be applied to practically any substrate
- Not suitable for indoor application

### Features

- Long-term proven since 1970
- Cold applied
- Water vapour permeable
- Crack bridging
- Root resistant according to FLL-testing
- Third-party monitoring
- Can be walked on for maintenance
- UV resistant
- 2-component
- CE-Kennzeichnung
- Based on: Polyester resin

### Pack sizes

KEMPEROL V 210 M waterproofing:

Component M 19.4 kg

KEMPEROL CP catalyst powder Component C 0.6 kg

### Shelf Life

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

KEMPEROL CP catalyst powder shall be stored separately.

### Usage guide

Depending on the nature of the surface and depending on the used KEMPEROL Fleece: 2,8-3,6 kg/m<sup>2</sup> at a layer thickness of approx. 2.0 mm (see Technical Information TI 03 - Layer thicknesses according to the guidelines).

### 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.

### Test results according to ETAG 005

Component to 2	ETA 03/0025
Water vapour diffusion factor $\mu$	~ 10960
Resistance to wind loads	>= 50 kPa
External fire performance	B <sub>ROOF(t1)</sub> **
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, sound and free from any material that would hinder adhesion.

Before applying KEMPEROL V210 M Waterproofing, prime with KEMPERTEC Primer according to priming recommendations.

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

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).

At ambient temperatures below  $+10^{\circ}\text{C}$ , add KEMPEROL UP-A cold activator, at temperatures exceeding  $25^{\circ}\text{C}$  add KEMPEROL UP-I inhibitor to KEMPEROL V210 M Waterproofing component M.

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

### Application

Apply approximately 2/3 of the KEMPEROL V210 M Waterproofing oil in the KEMPEROL Fleece and embed with a perlon roller. Remove air bubbles and overlap fleece sections by 5 cm. Apply the remaining 1/3 of the KEMPEROL V210 M Waterproofing ensuring complete saturation of the fleece.

To prevent premature soiling of KEMPEROL V210 M Waterproofing scatter KEMPEROL TP talcum onto the waterproofing after waiting at least 12 hours, distribute it with a fine broom and sweep the surface afterwards.

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.

### 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:

Interruptions of more than 12 hours: Clean the working area intensively with KEMCO MEK Cleaning Agent.

### 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
- TI 23 - solvent-based products

### Important notice

When using KEMPEROL V210 M Waterproofing explosion protection is required for working equipment.

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. M	liquid	EWC 08 04 09
Comp. M	cured	EWC 08 04 10
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.

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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