

KEMPEROL V 210 M waterproofing



Uses

- Only suitable for outdoor use
- in conjunction 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

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 / 9.7 kg

KEMPEROL CP catalyst powder Component C 0.6 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 nature of the substrate and depending on the KEMPEROL fleece used: at least 2,8 kg/m² for a layer thickness of approx. 2.0 mm (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.

Test results according to ETAG 005

| | |
|-------------------------------------|---------------------------|
| 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 sealing, 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 ambient temperatures above +25 °C KEMPEROL UP-I inhibitor in the KEMPEROL V210 M sealing component ;M must be added.

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

Application

Apply approximately 2/3 of the KEMPEROL V210 M sealing 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 sealing ensuring complete saturation of the fleece.

To prevent premature soiling of KEMPEROL V210 M sealing 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 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. 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.

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.

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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