

KEMPEROL® V 210 Waterproofing

Uses

- Used in conjunction with **KEMPEROL® Fleece** for waterproofing details, joints and general waterproofing of structures
- As a waterproofing system for flat roofs, plant holders, buildings, etc.
- For green roofs
- For new construction and remedial projects
- Can be applied to virtually any substrate
- Not suitable for indoor application

Features

- proven since 1970
- water vapour permeable
- bridges cracks
- root resistant according to FLL-testing
- third party monitoring
- cold applied

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
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.



Composition

3-component waterproofing system based on flexible polyester resin.

Pack sizes

KEMPEROL® V 210 Waterproofing resin	
Component A	23.4/9.4 kg
Component B	25/10 kg
KEMPEROL® CP Catalyst Powder	
Component C	1.6/0.6 kg

Shelf Life

Can be stored unopened for up to 12 months in a cool, dry, frost-free place.

KEMPEROL® CP Catalyst Powder must be stored separately.

Properties

Form	Comp. A liquid Comp. B liquid Catalyst Powder
Standard Colour	grey
Special Colours	on request
Workability period* [min]	approx. 15
Rainproof* after [min]	approx. 30
Can be walked on* after [h]	approx. 6
Cured* after [d]	approx. 3
Next coat can be applied after* [h]	approx. 6

* Values obtained at a temperature of 23 °C - 50 % rel. humidity. May vary according to weather conditions such as wind, humidity and temperature.

Usage guide

Depending on the nature and condition of the substrate and on the used **KEMPEROL® Fleece**:
Approx. 2.8-3.6 kg/m² giving a coating thickness of approx. 2.0 mm.

Application

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

Before application of **KEMPEROL® V 210 Waterproofing**, prime using **KEMPERTEC® Primer** according to the priming recommendations.

Apply only when substrate and ambient temperatures exceed 5 °C. During application the surface temperature must be 3 °C above the dew point. If the substrate temperature is below or at the dew point temperature then moisture can form at the surface which can affect coating adhesion and cure. (Please refer to DIN 4108 - 5 Tab.1 for a dew point graph).

At ambient temperatures under +10 °C, **KEMPEROL® UP-A Cold Activator**, and over +25 °C, **KEMPEROL® UP-I Inhibitor** should be added to **KEMPEROL® V 210 Waterproofing** component B.

Mixing:

Mix **KEMPEROL® CP Catalyst Powder** component C thoroughly into **KEMPEROL® V 210 Waterproofing** component A.

Dissolving time: approx. 20 min. at +20 °C.

Stir **KEMPEROL® V 210 Waterproofing** component B thoroughly until no streaks are visible and mix thoroughly in a 1:1 ratio with the **KEMPEROL® V 210 Waterproofing** component A+C mixture. Again, ensure that no streaks are visible.

Approx. 2/3 of the **KEMPEROL® V 210 Waterproofing** is applied to the substrate and **KEMPEROL® Fleece** is rolled with a perlon roller, removing air bubbles and allowing an overlap of 5 cm. Then the remaining 1/3 of the **KEMPEROL® V 210 Waterproofing** is poured onto the surface until complete saturation is achieved. To reduce dirt retention, after a minimum of 12 hours **KEMPEROL® TP Talcum Powder** can be sprinkled onto **KEMPEROL® V 210 Waterproofing**. Spread with a light brush and sweep off excess.

Joints on door and window elements etc. with a height of < 15 cm (as a water-bearing level from the upper edge) should have at least 5 cm of overlap.

Connections to the surface waterproofing should be made with at least a 10 cm overlap.

For surfaces under 2 % incline and used surfaces, a film thickness of at least 2 mm must be achieved.

Apply **KEMPERDUR® Finish gloss** or a decorative coating on the waterproofing membrane.

Alkaline protection layer:

KEMPEROL® V 210 Waterproofing has only limited alkali resistance. For long-term exposure a coat of **KEMPERTEC® EP-Primer**, **KEMPERTEC® EP5-**

Primer or **KEMPERTEC® AC-Primer** with **KEMPERTEC® NQ 0712 Natural Quartz** to be sprinkled in provides suitable protection (see also Technical Information TI 15 - alkalinity).

Personal protective equipment should be worn.

Clean the tools immediately after use with **KEMPERTEC® MEK Cleaning Agent**. Clean your hands and rub **KEMPER SYSTEM skin care cream** into the skin.

Remark

Please consider our recommendations in Technical Information TI 23 - solvent-based products

Important notice

The valid version of the "Special regulations for roofs with seals", the standards valid for the respective trade and the state of the art apply when the product is applied. For chemical resistance, see the Chemical Resistance List A-Z. The safety data sheets, identification of the units, hazard warnings and safety recommendations on the units must be observed during transportation, storage and application. The BG-Chemie Codes of Practice must be observed for application.

Disposal

Components A+B liquid	EWC 08 04 09
Components A+B cured	EWC 08 04 10
Catalyst powder	EWC 16 05 08

General information

The times given are reduced with higher and increased with lower surrounding and work surface temperatures.

We guarantee the consistent high quality of our products.

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

The technical information and application instructions contained herein reflect the current level of knowledge and 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 practice. 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 - correct application of our products therefore falls entirely within your scope of liability and responsibility. Our products are sold exclusively on the basis of our conditions of sale and delivery.

Published: Vellmar, June 2008