

## KEMPEROL AC Speed



### Uses

- For the waterproofing of surfaces, for connections and details in combination with KEMPEROL Fleece
- As a waterproofing system under tarmac layers
- Suitable for outdoor applications
- For new buildings and repair work
- Can be applied to practically any substrate
- For OS10 systems

### Characteristics

- Fast hardening
- Cold to process
- Water vapor diffusible
- Crack-bridging
- Root-resistant according to FLL test
- Accessible for maintenance purposes
- Solvent-free
- UV-resistant
- Environmentally declared according to valid international standards
- 2-component
- Lightfast
- Processable down to -5 °C ambient temperature
- CE marking
- Red algae resistant
- Resin base: PMMA
- Alkali-resistant
- Radon-resistant

### Pack sizes

15 kg container (component A) in conjunction with KEMPEROL CP catalyst powder (component B) Quantity added -see Table Hardening

### 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: at least 2,5 kg/m<sup>2</sup> depending on the layer thickness (see Technical Information TI 03 - Layer thicknesses according to regulations).

### Properties

|                                   |  |
|-----------------------------------|--|
| Form                              | Comp. A liquid<br>Comp. B powder                   |
| Standard colour                   | Traffic grey                                       |
| Workability time*                 | approx. 20 min<br>(2% KEMPEROL CP catalyst powder) |
| Rainproof after*                  | approx. 35 min                                     |
| Can be walked on after*           | approx. 35 min                                     |
| Cured after*                      | approx. see the Hardening table**                  |
| Further coating after*            | approx. 60 min ****                                |
| Short term temperature resistance | re- 250 °C   |

\* 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 Surfacing, see corresponding Technical Data Sheet.

### CE marking

|                                     |                          |
|-------------------------------------|--------------------------|
| Water vapour diffusion factor $\mu$ | ~ 6600                   |
| Resistance to wind loads            | 1,6 N/mm <sup>2</sup>    |
| 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

\*\*\* Classification in accordance with EN 13501-1.

## Curing

Hardening takes place with KEMPEROL CP catalyst powder. The quantity added depends on the temperature.

| Table for 15 kg<br>KEMPEROL AC Speed Waterproofing |  |                             |                                 |
|--|--|-----------------------------|---------------------------------|
| Temperature [°C]                                   | KEMPEROL CP cat. powder - quantity [g] | Pot life in container [min] | Rainproof / surface cured [min] |
| -5°C   | 600                                    | 60 min                      | 90 min                          |
| 0°C  | 600                                    | 45 min                      | 80 min                          |
| +5°C   | 600                                    | 35 min                      | 70 min                          |
| +10°C  | 600                                    | 30 min                      | 60 min                          |
| +20°C  | 300                                    | 20 min                      | 35 min                          |
| +30°C  | 150                                    | 20 min                      | 30 min                          |

## Application

### Preparing the substrate

Substrates must be dry (residual moisture in concrete in the upper 2 cm < 5%), capable of withstanding loads and free from materials that may hinder adhesion, and must be appropriately prepared.

On some substrates, no priming of the full surface is necessary. Generally, the priming recommendations for KEMPEROL AC Speed Waterproofing have to be observed.

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).

### Preparation

If the ambient temperature is 10°C or lower, it is recommended that you store and mix the components at room temperature.

At temperatures above +25°C, protect the material against direct sunlight.

### Mixing

KEMPEROL AC Speed Waterproofing may only with KEMPEROL CP catalyst powder may be used. The quantity of the catalyst powder must be adapted to the respective material temperature (see Table Hardening KEMPEROL CP catalyst powder component B to be mixed thoroughly into KEMPEROL AC Speed Waterproofing component A.

### Use

The Sealant is produced by mixing KEMPEROL CP catalyst powder and KEMPEROL AC Speed Waterproofing and KEMPEROL 165 fleece. Please refer to the instructions for use for further information.

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.

### Work interruption and further coating

If the surface of the sealant is tack-free, it can be applied after approx. 60 minutes KEMPERDUR AC coating, KEMPERDUR AC Park, KEMPERDUR AC Park+ or KEMPERDUR AC-Finish .

During the further processing of KEMPERDUR MT mineral tile adhesive a bonding bridge is required.

PMMA surfaces must be cleaned with KEMCO MEK Cleaning Agent if left open for more than 3 days.

### Note

Please consider the following technical information:

- TI 21 - substrate preparation
- TI 22 - Application of KEMPEROL/KEMPERDUR AC products
- TI 33 - Processing of / AC Speed+ Sealing at temperatures below +5°C
- TI 34 - Correct masking of the surface to be treated with KEMPEROL

### Important notes

When applying KEMPEROL AC Speed Waterproofing explosion protection for working equipment is necessary.

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.

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**Disposal**

|        |              |
|--------|--------------|
| liquid | EAK 08 04 09 |
| cured  | EAK 17 02 03 |

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**GISCODE**

RMA10

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**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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