

## KEMPERTEC AC Primer



### Uses

- As a primer and for a force-fit, permanent bond between substrate and
  - KEMPEROL AC Speed
  - KEMPERDUR AC Park and KEMPERDUR AC Park+
  - KEMPERTEC AC GF Gradient filler and KEMPERTEC AC RM Repair Mortar
  - KEMPEROL V 210 M and KEMPEROL BR M
- As alkaline protection layer
- For new buildings and repair work
- As bonding agent for trowel-applied filler and repair mortar
- Use as primer according to BAST (H PMMA:2018), e.g.: Bridge supporting structure

### Characteristics

- Fast hardening
- Solvent-free
- Good adhesion
- 2-component
- Processable down to -5 °C ambient temperature
- Resin base: PMMA

### Pack sizes

1 kg (transparent), 5 kg (transparent blue) and 20 kg (transparent blue) container (component A) in combination with KEMPEROL CP catalyst powder (component B), refer to the table for recommended quantities.

### Shelf Life

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

### Usage guide

Depending on the absorbency of the substrate:

As priming: at least 0.5 kg/m<sup>2</sup>

As alkali protection: at least 0.4 kg/m<sup>2</sup>

Usage must not exceed 0,75 g/m<sup>2</sup>, otherwise bulging and flaking can occur!

### Properties

Form	Comp. A liquid Comp. B powder
Standard colour	transparent blue blue-transparent Transparent
Workability time * (2% KEMPEROL CP catalyst powder)	approx. 11 min
Rainproof after *	approx. 30 min
Can be walked on after *	approx. 30 min
Further coating after*	approx. 30 min

\* 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.

### Curing

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

Temperature [°C]	KEMP. CP cat. powder - quantity [20 g bag] for 1 kg	KEMP. CP cat. powder - quantity [100 g bag] for 5 kg	KEMP. CP cat. powder - quantity [100 g bag] for 20 kg	Pot life in container [min]	Surface cured [min]
-5 °C	2 bags	2 bags	8 bags	40 min	60 min
0 °C	2 bags	2 bags	8 bags	30 min	50 min
+5 °C	2 bags	2 bags	8 bags	20 min	45 min
+10 °C	2 bags	2 bags	8 bags	18 min	30 min
+20 °C	1 bag	1 bag	4 bags	15 min	30 min
+30 °C	1/2 bag	1/2 bag	2 bags	10 min	15 min

### CE marking

Component to 1	ETA 03/0025 ETA 03/0026 ETA 03/0043 ETA 03/0044
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## Application

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### 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.

(refer to Technical Information TI 21 - Substrate Assessment)

The priming recommendations should be followed.

Do not apply during rising temperatures.

Please refer to the Technical Information TI 33 – Working at temperatures below +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).

KEMPERTEC AC primer 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 KEMPERTEC AC primer component A.

### Use as a primer

The KEMPERTEC AC primer must be immediately processed, after mixing with KEMPEROL CP catalyst powder poured on the surface and evenly distributed. Prime evenly in one operation with a nylon roller or a rubber slider until saturation. When using a rubber slider, it is necessary to roll over the surface again with the perlon roller to avoid material accumulation. The next stage can be started after approx. 30 minutes when the primer surface is no longer tacky.

### Use as a filling compound

Before applying the filling compound, apply KEMPERTEC AC primer.

To compensate any irregularities in the horizontal between 2 and 6 mm, the KEMPERTEC AC primer is mixed with KEMPERTEC KR Quartz Sand Mixture in a ratio of approx. 1: 3 and applied to the prepared and primed substrate.

### Use as a repair mortar

Before applying repair mortar, apply KEMPERTEC AC primer.

To compensate any unevenness, shrinkage holes and small eruptions up to 20 mm depth, the KEMPERTEC AC primer is mixed with the KEMPERTEC KR Quartz

Sand Mixture in a ratio of approx. 1: 10. Note that when applying layer thicknesses of more than approx. 2 cm intense heat generation occurs.

This ratio may be varied depending on the particular application and the ambient conditions.

### Use as an protective alkaline layer / bonding coat

To protect KEMPEROL waterproofing systems against alkaline media (Technical Information TI 15 - Alkalinity) or to create a bonding coat apply a coat of KEMPERTEC AC Primer (consumption min. 0.4 kg/m<sup>2</sup>).

The still fresh coat must be spread with KEMCO NQ 0712 Natural Quartz a full covering layer (consumption at least 1.5 kg/m<sup>2</sup>).

### Use as a primer on the bridge support structure

In order to use the primer in a coating system on bridges the instructions for use are binding.

### Work interruption and further coating

Operations must be completed within the next 8 days, otherwise separation effects may occur. To avoid this separation effect, it is recommended to sand the still fresh KEMPERTEC AC primer with KEMCO NQ 0408 Natural Quartz (approx. 2 kg/m<sup>2</sup>). Otherwise adhesion of subsequent coats cannot be guaranteed and repriming will be necessary.

### PPE

Sufficient ventilation is required. The corresponding instructions should be followed. Always wear personal protective equipment (breathing equipment with filter A/P2, protective gloves, safety goggles). 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

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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

### Important notes

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Flammable vapour/air mixtures may form in areas with inadequate ventilation.

When applying KEMPERTEC AC primer explosion protection for working equipment is necessary.

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.

Do not allow to enter waters, drains or to penetrate the ground.

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**

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liquid	EAK 08 04 09
cured	EAK 17 02 03

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### **GISCODE**

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RMA10

### **General information**

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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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