



**KEMPER  
SYSTEM**

A KEMCO Company

# TECHNICAL INFORMATION

## KEMPEROL® SYSTEM

# KEMPEROL® AC

### Uses

- As a **waterproofing** membrane with **KEMPEROL® Fleece 165**
- As a **coating** membrane mixed with **KEMPEROL® AC Quartz Sand Mixture**
- To waterproof, coat and enhance the decorative appeal of
  - balconies and terraces
  - floors of winter gardens, in commercial, retail and leisure premises, garages and basements
- For new construction and remedial projects

### Features

- fast curing
- light-stable
- UV-resistant
- wear resistant

### Composition

2-component waterproofing/coating system based on methyl methacrylate resin.

### Pack sizes

10 kg units (component A) to be mixed with **KEMPEROL® AC Hardener** (component B).  
To determine the quantity to be added, see table below.

### Shelf Life

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



### Properties

Form	liquid
Colour	pebble grey
Workability period* [min] (2 % <b>KEMPEROL® AC Hardener</b> )	approx. 20
Rainproof* after [min]	approx. 35
Can be walked on* after [min]	approx. 35
Next coat can be applied after* [min]	approx. 60
Withstands poured asphalt after [h]	approx. 24
Short-term temperature resistance [°C]	250

\* Values obtained at a temperature of 20 °C - 50 % rel. humidity. May vary according to weather conditions such as wind, humidity and temperature.

### Usage guide

As a waterproofing membrane: approx. 2.5 kg/m<sup>2</sup>  
As a coating membrane mixed with **KEMPEROL® AC Quartz Sand Mixture**: approx. 5.2 kg/m<sup>2</sup>

## Hardening

**KEMPEROL® AC Hardener** is used for curing. The quantity added to 10 kg **KEMPEROL® AC** depends on the temperature.

Material-Temperatur e [°C]	KEMPEROL AC Hardener quantity [100 g bags]	KEMPEROL AC Hardener quantity [%]	Pot life in pack [min]	Surface cured [min]
+ 5	4 bags	4 %	35	70
+ 10	4 bags	4 %	30	60
+ 20	2 bags	2 %	20	35
+ 30	1 bag	1 %	20	30

## Application

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

Apply only when substrate and ambient temperature exceed 5 °C. If the dew point is not reached, a moisture film can form on the surface to be treated and cause separation (DIN 4108 - 5 Tab.1).

During application the surface temperature must be 3 °C above the dew point. At temperatures of  $\leq 10$  °C, we recommend storing the materials at room temperature. At temperatures  $> 25$  °C, we recommend that you protect the material from direct exposure to the sun.

**KEMPEROL® AC** may only be used with **KEMPEROL® AC Hardener**. The hardener quantity must be adjusted depending on the particular material temperature (see hardening table).

### **KEMPEROL® AC Waterproofing System:**

The **KEMPEROL® AC Waterproofing System** comprises:

**KEMPEROL® AC**, mixed with **KEMPEROL® AC Hardener** and **KEMPEROL® Fleece 165**. Detailed application instructions are available.

### **KEMPEROL® AC Coating System:**

**KEMPEROL® AC Coating System** consists of **KEMPEROL® AC**, **KEMPEROL® AC Hardener** and **KEMPEROL® AC Quartz Sand Mixture**. Detailed application instructions are available.

After approx. 60 minutes **KEMPEROL® AC Finish** can be applied to either system, provided that the surface is tack-free.

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 sealant should be made with at least a 10 cm of overlap.

Sufficient ventilation is required. The corresponding instructions should be followed.

**Personal protective equipment (breathing protective mask with filter A/P2, protective gloves, protective glasses) should be worn.**

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

## Remark

**Please consider TI No. 22 and No. 23!**

## Important notice

**In poorly ventilated areas flammable vapour might develop in the air. In these areas explosive protection for equipment is required.**

The valid version of the "Special regulations for roofs with seals", the DIN Standards valid for the respective trade and the state of the art apply when the seal is made. 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 technical information must be observed for application. Do not allow into the sewer system or into the ground.

## Disposal

liquid	EWC 08 04 09
cured	EWC 08 04 10

## GISCODE

RMA 10

## General information

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**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, December 2006



KEMPEROL® SYSTEM

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# KEMPEROL® AC Hardener

Uses

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- **KEMPEROL® AC Hardener** is a reactive agent to induce the setting of **KEMPEROL® AC products**.

CE-Marking

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Component to 1,	ETA 03/0025
Component to 4	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

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Composition

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Reactive agent based on 50 % dibenzoyl peroxide in stabilizer

Pack sizes

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20 g, 100 g

Shelf Life

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Cool and dry, can be stored for 6 months. Must be stored separately. Safety instructions on the packaging and the safety data sheets must be observed.

Properties

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Form	powder
Colour	white

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Usage guide

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Refer to the technical data sheet of the corresponding product to determine the quantity of peroxide to be added.



Application

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Mix according to the instructions of the respective product.

**Personal protective clothing must be worn (Respirator with A/P2 filter, gloves, chemical goggles).**

Important notice

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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 technical information must be observed for application.

Do not allow into the sewer system or into the ground.

Protect from heat and direct sun!

Disposal

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Hardener EWC 16 05 08

GISCODE

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RMA10

## General information

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Published: Vellmar, February 2004



KEMPEROL® SYSTEM

**KEMPEROL®**  
**Fleece 165**

Uses

- As reinforcement for **KEMPEROL®** waterproofing systems.
- With **KEMPEROL®** waterproofing systems as 2nd layer for reinforcement.
- For new construction and remedial projects

Features

- system tested and adapted to the specific purpose
- regulates the layer thickness
- suitable to every shape of the surface

CE-Marking

Component to 3	ETA 03/0025
	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

Composition

Special fleece based on polyester.

Pack sizes

Rolls

Length in metres: 50

Width in cm: 105 / 70 / 52.5 / 35 / 26.25 / 21 / 10.5

Length in metres: 25

Width in cm: 26.25

Shelf Life

Keep away from dampness, store dry, flat and crease-free.

Properties

Form	solid
Colour	white
Weight [g/m <sup>2</sup> ]	approx. 165



Application

Approximately 2/3rd of the required **KEMPEROL®** resin should be applied to the primed substrate prior to embedding the **KEMPEROL® Fleece 165**. All overlaps in the fleece should be saturated to ensure continuity of the system, and be a minimum of 50 mm.

When this has changed colour by rolling or brushing from above, the remaining 1/3rd of resin is applied to the surface and lightly rolled to remove excess material.

The interface with door and window elements etc., minimum recommended height 15 cm, should have a minimum 5 cm overlap. Connections to the surface waterproofing should be made with a minimum 10 cm overlap.

Disposal

Fleece EWC 04 02 21

General information

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Published: Vellmar, October 2004



KEMPEROL® SYSTEM

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# KEMPEROL® AC Quartz Sand Mixture

Uses

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- Component C of the **KEMPEROL® AC Coating System**

Features

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- graduated grain size
- system compatible and adapted to the specific purpose

CE-Marking

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Component to 4	ETA 03/0025
	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

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Composition

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Quartz sand mixture with consistent grain size.

Pack sizes

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23 kg

Shelf Life

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Keep cool and dry. The bags must be kept air-tight.

Properties

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Form	solid, grains
Colour	yellowish white

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Usage guide

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Approx. 5.2 kg/m<sup>2</sup> (3.7 kg/m<sup>2</sup> **KEMPEROL® AC Quartz Sand Mixture**) **KEMPEROL® AC Coating System** with a layer thickness of 3 mm.

**KEMPEROL® AC Coating System** working packs consist of:

- 10 kg **KEMPEROL® AC** as component A
- **KEMPEROL® Hardener** (s. table) as component B
- 23 kg **KEMPEROL® AC Quartz Sand Mixture** as component C.

Application

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Steps after treatment of the substrate:

Mix **KEMPEROL® AC Hardener** into **KEMPEROL® AC**.

Mix in **KEMPEROL® AC Quartz Sand Mixture**.

The mixing must be done with a slow-running mixing machine.

Sufficient ventilation should be provided for enclosed areas.

**Personal protective equipment (breathing protective mask with filter A/P2, protective gloves, protective glasses) should be worn.**

### Important notice

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The safety data sheets, identification of the units, hazard warnings and safety recommendations on the units must be observed during transportation, storage and application.

### Disposal

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Quartz Sand Mixture                      EWC 19 12 09

### General information

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# TECHNICAL INFORMATION

## KEMPEROL® System

# KEMPEROL® AC Finish

### Uses

- To seal **KEMPEROL® AC** or **KEMPEROL® TC** Coating Systems or **KEMPEROL® AC**, **KEMPEROL® V 210** and **KEMPEROL® BR** Waterproofing Systems

### Features

- fast curing
- decorative
- matt
- light-stable

### CE-Marking

Component to 4	ETA 03/0025
	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

### Composition

2-component, pigmented and cold curing methyl methacrylate resin.

### Pack sizes

5 kg units (component A) to be mixed with **KEMPEROL® AC Hardener** (component B).  
To determine the quantity to be added, see table below.

### Shelf Life

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



### Properties

Form	liquid
Colours	transparent, pebble grey, stone grey, light grey, light ivory, beige, pure white
Workability period* [min] (2 % <b>KEMPEROL® AC Hardener</b> )	approx. 20
Rainproof* after [min]	approx. 30
Can be walked on* after [min]	approx. 60

\* Values obtained at a temperature of 20 °C - 50 % rel. humidity. May vary according to weather conditions such as wind, humidity and temperature.

### Usage guide

600-1000 g/m<sup>2</sup> depending on the nature and condition of the substrate

## Hardening

**KEMPEROL® AC Hardener** is used for curing. The quantity added to a 5 kg-working pack depends on temperature.

Material-Temperature [°C]	KEMPEROL AC Hardener quantity [100 g bags]	KEMPEROL AC Hardener quantity [%]	Pot life in pack [min]	Surface cured [min]
+ 5	2 bags	4 %	35	60
+ 10	2 bags	4 %	30	45
+ 20	1 bag	2 %	20	30
+ 30	1/2 bag	1 %	20	30

## Application

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

If the dew point is not reached, a moisture film can form on the surface to be treated and cause separation (DIN 4108 - 5 Tab.1).

During application the surface temperature must be 3 °C above the dew point.

**KEMPEROL® AC Finish may only be used with KEMPEROL® AC Hardener. The hardener quantity must be adjusted depending on the particular material temperature (see table).**

Apply **KEMPEROL® AC Finish** to the surface immediately after mixing with **KEMPEROL® AC Hardener**. Apply evenly in one operation with a perlon roller. To enhance decorative appeal, **KEMPEROL® AC Microchips** can be evenly blown in or thrown in by hand onto the treated surface.

**KEMPEROL® AC Finish transparent** can only be applied on a level substrate, with an even film thickness. Maximum usage should be 1 kg/m<sup>2</sup>, otherwise colour changes may result.

Sufficient ventilation is required. The corresponding instructions should be followed.

**Personal protective equipment (breathing protective mask with filter A/P2, protective gloves, protective glasses) should be worn.**

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

## Remark

Please consider TI No. 22, 23 and 24!

## Important notice

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 technical information must be observed for application.

Do not allow into the sewer system or into the ground.

## Disposal

liquid EWC 08 04 09  
cured EWC 08 04 10

## GISCODE

RMA10

## General information

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# TECHNICAL INFORMATION

## KEMPEROL® SYSTEM

# KEMPEROL® AC Microchips

### Uses

- To enhance the decorative appeal of surfaces coated with **KEMPEROL® AC Finish**

### Features

- decorative

### CE-Marking

Component to 4	ETA 03/0025
	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

### Composition

Coloured microchips based on PVC and PVAc.

### Pack sizes

1 kg bag  
Chip size: 0.25 - 1.4 mm

### Shelf Life

Store in a dry environment.

### Properties

Form	solid
Colour	ready-to-use mixture white/grey/black (1:1:1)

### Usage guide

Approx. 100 g/m<sup>2</sup> (depending on the quantity of the chips).



### Application

Blow **KEMPEROL® AC Microchips** into the wet **KEMPEROL® AC Finish** with a chip gun or sprinkle them by hand.

**Personal protective equipment (breathing protective mask with filter A/P2, protective gloves, protective glasses) should be worn.**

### Disposal

Microchips EWC 16 01 19

### General information

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Published: Vellmar, February 2004



**KEMPEROL® Accessories**

**KEMPEROL®  
Thixotropic Additive**

**Uses**

- Thixotropic Additive for **KEMPEROL® AC and TC Coating Systems** for slopes between 3 and 20 %.

**Features**

- Improves the stability of **KEMPEROL® AC and TC Coatings** on inclined surfaces
- Reduces self-levelling properties and avoids flowing off ramps and inclined surfaces.

**Composition**

Highly dispersable, amorphous silicon dioxide.

**Pack sizes**

150 g plastic bag  
1 kg paper bag

**Shelf Life**

Cool and dry.  
Keep packages tightly closed and protect from humidity.

**Properties**

Form	powder
Colour	white

**Usage guide**

The quantity needed depends on:

- Inclination
- Structure and condition of the substrate
- temperature

**For KEMPEROL® AC Coating:**

work pack	inclination	Thixotropic Additive
33 kg	3 - 5 %	0.1 mass% (~ 10 g) for comp. A
33 kg	5 - 7 %	0.2 mass% (~ 20 g) for comp. A
33 kg	7 - 10 %	0.3 mass% (~ 30 g) for comp. A
33 kg	11 - 20 %	0.6 mass% (~ 60 g) for comp. A

**For KEMPEROL® TC Coating:**

work pack	inclination	Thixotropic Additive
20 kg	3 - 20 %	2 mass% (~ 150 g) comp. A
40 kg	3 - 20 %	2 mass% (~ 300 g) comp. A

**Application**

**With KEMPEROL® AC Coating System:**

After calculating the correct amount of the thixotropic agent, this must be added with a slow drill to the **KEMPEROL® AC Coating** which consists of **KEMPEROL® AC** (component A) + **KEMPEROL® AC Quartz Sand Mixture** (component C) and which has to be transferred to a new container and be thoroughly mixed before. After the thixotropic agent has been added to the **KEMPEROL® AC Coating**, the **KEMPEROL® AC Hardener** is added according to the table below.

**With KEMPEROL® TC Coating System:**

Depending on the size of the work package, add the corresponding amount of thixotropic additive to component A of **KEMPEROL® TC Coating System** with a slow drill. Mix thoroughly. Add component B to the mixture and pour the mixture into an empty container. Consequently, add component C (filler) to the mixture.

**Personal protective equipment should be worn.**

Especially when working with the thixotropic additive, we recommend that you use a dusk mask.

## **Important notice**

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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 following BG-Chemie technical information must be observed for application .

Do not allow into the sewer system or into the ground.

## **Disposal**

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solid

EWC 19 12 09

## **General information**

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## Priming Recommendation

Published May 2006

### KEMPEROL® AC Waterproofing

This table represents a guide for the user and should be regarded only as a recommendation. Depending on the building, it may be necessary to carry out suitability tests (individual testing), because the overall structure must always be considered. All substrates must be evenly solid and free of separating substances (oil, separating agents, free granules - see also TI 21). Other substrates not listed here must always be checked with regard to their adhesion performance.

Substrate	KEMPEROL® AC-Primer
Bitumen roof sheet (V 13, V 60, G 200, PYE (SBS))	▲
APP-Bitumen roof sheet, granulated	Indiv. Testing
Asphalt, weathered	Indiv. Testing
Plastic sheets (EPDM, ECB, PVC, PE, PP, PIB, EVA)	Indiv. Testing
FPO- or TPO-Plastic sheets	Indiv. Testing
Fibre-cement sheets	▲
Clinker, Bricks, visible brickwork stones (grinded)	Indiv. Testing
Concrete, screed	▲
Plastic-modified screed and mortar (PCC)	Indiv. Testing
Stones for construction (lightweight, gas or pumice concrete, cement and calcareous sandstone)	Indiv. Testing
Glass (uncoated) - MEK cleaned	Indiv. Testing
Zinc, galvanised steel	Indiv. Testing
Copper, lead	Indiv. Testing
Steel, special steels (V2A, V4A), Aluminium	Indiv. Testing
Insulating materials (polystyrene, rock wool)	Partition layer
Insulating materials (polyurethane)	Partition layer
Wood panels, plywood, chipboard, OSB	▲ 6

6 Partition layer required!

When using this priming table, it is necessary to follow KEMPER SYSTEM preparation guidelines and technical advice. Please observe our warranty clause for application-related consultation.



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# TECHNICAL INFORMATION

## KEMPEROL® SYSTEM

# KEMPEROL® AC Primer

### Uses

- For priming and to provide a permanent adhesive bond between
  - **KEMPEROL® AC Coating** compound and the substrate or
  - **KEMPEROL® AC, KEMPEROL® V 210, KEMPEROL® BR** and **KEMPEROL® 2K-PUR** waterproofing membranes and the substrate
- For new construction and remedial projects

### Features

- fast curing
- excellent adhesion

### CE-Marking

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

### Composition

2-component, cold curing methyl methacrylate resin.

### Pack sizes

1 kg, 3 kg and 5 kg units (component A) to be mixed with **KEMPEROL® AC Hardener** (component B).  
To determine the quantity to be added, see table below.

### Shelf Life

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



### Properties

Form	liquid
Colour	transparent
Workability period* [min] (2% <b>KEMPEROL® AC Hardener</b> )	approx. 15
Rainproof* after [min]	approx. 30
Can be walked on* after [min]	approx. 30
Next coat can be applied after* [min]	approx. 30

\* Values obtained at a temperature of 20 °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: approx. 500 g/m<sup>2</sup>. Usage must not exceed 750 g/m<sup>2</sup>, otherwise bulging and flaking can occur!



## Hardening

**KEMPEROL® AC Hardener** is used for curing. The quantity added depends on temperature.

Material-Temperature [°C]	KEMPEROL AC Hardener quantity [20 g bags] per 1 kg pack	KEMPEROL AC Hardener quantity [20 g bags] per 3 kg pack	KEMPEROL AC Hardener quantity [100 g bags] per 5 kg pack	KEMPEROL AC Hardener quantity [%]	Pot life in pack [min]	Surface cured [min]
+ 5	2 bags	6 bags	2 bags	4 %	20	45
+ 10	2 bags	6 bags	2 bags	4 %	18	30
+ 20	1 bag	3 bags	1 bag	2 %	15	30
+ 30	1/2 bag	1 bag	1/2 bag	1 %	10	15

## Application

The substrate must be dry (in concrete, the residual moisture in the upper 2 cm must be < 5 %), sound and free from any material that would hinder adhesion and must be prepared according to Technical Information No. 21. The priming recommendations should be followed.

Apply only when substrate and ambient temperature exceed 5 °C and are declining. During application the surface temperature must be 3 °C above the dew point. If the dew point is not reached, a moisture film can form on the surface to be treated and cause separation (DIN 4108 - 5 Tab.1).

**KEMPEROL® AC Primer may only be used with KEMPEROL® AC Hardener. The hardener quantity must be adjusted depending on the particular material temperature (see table).**

The **KEMPEROL® AC Primer** must be poured onto the surface and distributed evenly, **immediately** after mixing with **KEMPEROL® AC Hardener**. 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.

**KEMPEROL® AC-Primer** must be overcoated within 8 days of application, otherwise adhesion of subsequent coats cannot be guaranteed and repriming will be necessary. To avoid this, the wet primer can be blinded with **KEMPERDUR® Natural Quartz 0.7-1.2 mm** (approx. 1 kg/m<sup>2</sup>), allowing recoating to take place unhindered after this 8 day period.

Sufficient ventilation is required. The corresponding instructions should be followed.

**Personal protective equipment (breathing protective mask with filter A/P2, protective gloves, protective glasses) should be worn.**

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

## Remark

**Please consider TI No. 22 and 23!**

## Important notice

**In poorly ventilated areas flammable vapour might develop in the air. In these areas explosion protection for equipment is required.**

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 technical information must be observed for application.

Do not allow into the sewer system or into the ground.

**Cannot be used in swimming pools!**

## Disposal

liquid	EWC 08 04 09
cured	EWC 08 04 10

## GISCODE

RMA10

## General information

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Published: Vellmar, December 2006



KEMPEROL® SYSTEM

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# KEMPEROL® AC Hardener

Uses

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- **KEMPEROL® AC Hardener** is a reactive agent to induce the setting of **KEMPEROL® AC products**.

CE-Marking

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Component to 1,	ETA 03/0025
Component to 4	ETA 03/0026
	ETA 03/0043
	ETA 03/0044

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Composition

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Reactive agent based on 50 % dibenzoyl peroxide in stabilizer

Pack sizes

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20 g, 100 g

Shelf Life

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Cool and dry, can be stored for 6 months. Must be stored separately. Safety instructions on the packaging and the safety data sheets must be observed.

Properties

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Form	powder
Colour	white

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Usage guide

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Refer to the technical data sheet of the corresponding product to determine the quantity of peroxide to be added.



Application

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Mix according to the instructions of the respective product.

**Personal protective clothing must be worn (Respirator with A/P2 filter, gloves, chemical goggles).**

Important notice

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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 technical information must be observed for application.

Do not allow into the sewer system or into the ground.

Protect from heat and direct sun!

Disposal

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Hardener EWC 16 05 08

GISCODE

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RMA10

## General information

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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, February 2004



KEMPEROL® Accessories

# KEMPEROL® Basic Cleaning Agent

Uses

- Cleaning agent to remove soiling
- To clean tools

CE-Marking

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

Composition

Organic solvent mixture with aromatics/esters.

Pack sizes

25 kg

Shelf Life

Store in a cool and dry environment.

Properties

Form	liquid
Colour	clear

Usage guide

Depending on the degree of soiling  
approx. 200 g/m<sup>2</sup>

Application

Moisten the cleaning rag with **KEMPEROL® Basic Cleaning Agent** and apply to the substrate to remove dirt. Rinse thoroughly. Collect the cleaning liquid and dispose it.

For application in enclosed areas ensure there is sufficient ventilation!



Important notice

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 technical information must be observed for application.

Do not allow into the sewer system or into the ground!

Disposal

liquid EWC 07 02 04

General information

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Published: Vellmar, June 2005



KEMPEROL® Accessories

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# KEMPEROL® Cleaning Agent MEK

Uses

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- Cleaning agent to clean **KEMPEROL®** surfaces after a break for more than 6 hrs or for the re-treatment of existing waterproofing membranes after a longer period of time
- To clean tools
- To clean substrates
- To remove fat or oil from metals

Features

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- specific effectiveness
- evaporates quickly

CE-Marking

---

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

---

Composition

---

Organic solvent mixture.

Pack sizes

---

2 kg, 9 kg and 23 kg

Shelf Life

---

Store in a cool and dry environment.

Properties

---

Form	liquid
Colour	clear

---

Usage guide

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Depending on the degree of soiling approx. 200 g/m<sup>2</sup>



Application

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Apply **KEMPEROL® Cleaning Agent MEK** by cloth to previously **KEMPEROL®** pre-treated surfaces or soiled substrates, avoiding puddles of material. After cleaning, remove all residual cleaner.

Before additional coating, ventilate the area well.

For application in enclosed areas ensure there is sufficient ventilation.

**Caution: Danger of explosion!**

Personal protective equipment should be worn.

Important notice

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**KEMPEROL® Cleaning Agent MEK** is to be used only for the cleaning of tools and surfaces.

**Caution: Plastic surfaces (acrylic glass, etc.) can be dissolved.**

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 technical information must be observed for application.

Do not allow into the sewer system or into the ground!

## Disposal

---

liquid

EWC 07 02 04

## GISCODE

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GF40

## General information

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Published: Vellmar, December 2004

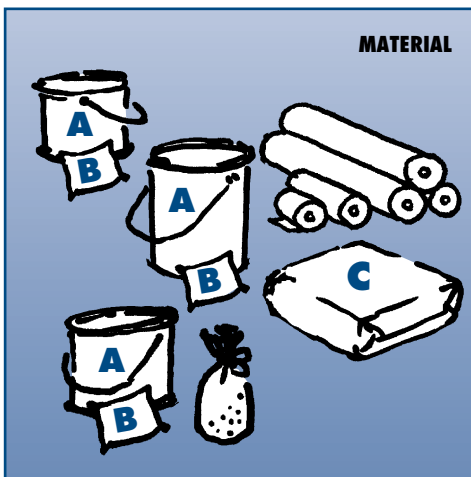
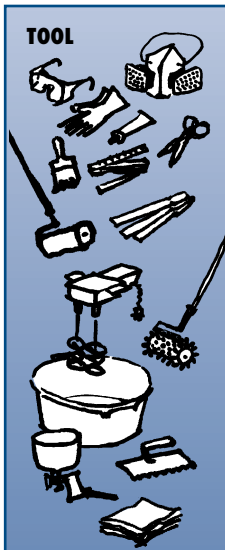


# KEMPER SYSTEM

ROOF	PARKING DECK BRIDGE
BALCONY TERRACE	SPECIAL APPLI- CATIONS

## APPLICATION INSTRUCTIONS

# KEMPEROL® AC



Goggles, breathing mask with A2 filter, gloves, hand cream, scissors, wooden stirring sticks, spiked roller, Perlon roller, ruler, special brush, mixer, mortar drum, 6 mm serrated ladle, chip gun, cleaning cloths

KEMPEROL® AC Primer (component A)  
+ KEMPEROL® AC Hardener (component B)  
KEMPEROL® AC (component A)  
+ KEMPEROL® AC Hardener (component B)  
KEMPEROL® AC Quartz Sand Mixture (component C)  
KEMPEROL® 165 Fleece  
KEMPEROL® AC Finish (component A)  
+ KEMPEROL® AC Hardener (component B)  
KEMPEROL® AC Microchips



# KEMPEROL® AC PRIMER

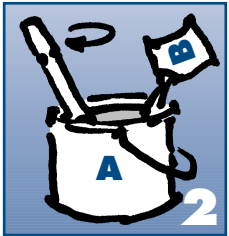


## Substrates:

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

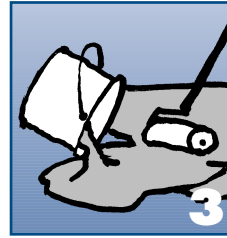
### Pay special attention to the dew point!

In the event of work interruptions longer than 24 h, all joint areas must be cleaned with **KEMPEROL® MEK Cleaning Agent**.



## Mixing

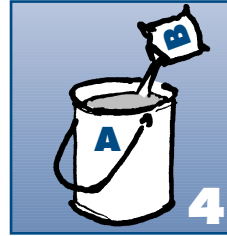
**KEMPEROL® AC Hardener** must be added to **KEMPEROL® AC Primer**. The amount of hardener depends on the material temperature (see the table below). Stir rapidly but thoroughly.



## Application

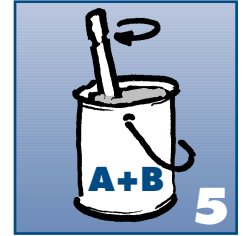
**KEMPEROL® AC Primer** must be poured onto the surface immediately after mixing with **KEMPEROL® AC Hardener** and distributed evenly. Apply until saturated in one operation using a Perlon roller or a rubber blade. If you use a rubber blade, it is essential to roll afterwards with the Perlon roller in order to avoid material accumulations. Do not use more than 750 g/m<sup>2</sup>.

# KEMPEROL® AC



## Mixing

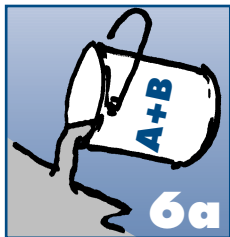
**KEMPEROL® AC Hardener** must be added to **KEMPEROL® AC**. The amount of hardener depends on the material temperature (see the table below). Stir rapidly but thoroughly.



Material temperature [°C]	KEMPEROL® AC hardener quantity [20 g bag to 1 kg]	KEMPEROL® AC hardener quantity [20 g bag to 3 kg]	KEMPEROL® AC hardener quantity [100 g bag to 5 kg]	KEMPEROL® AC hardener quantity [%]	KEMPEROL® AC	
					Pot life in drum [min]	Surface, cured [min]
+ 5	2 bags	6 bags	2 bags	4%	20	45
+ 10	2 bags	6 bags	2 bags	4%	18	30
+ 20	1 bag	3 bags	1 bag	2%	15	30
+ 30	1/2 bag	1 bag	1/2 bag	1%	10	15

Material temperature [°C]	KEMPEROL® AC hardener quantity [100 g bag to 10 kg]	KEMPEROL® AC hardener quantity [%]	KEMPEROL® AC	
			Pot life in drum [min]	Surface, cured [min]
+ 5	4 bags	4%	35	70
+ 10	4 bags	4%	30	60
+ 20	2 bags	2%	20	35
+ 30	1 bags	1%	20	30

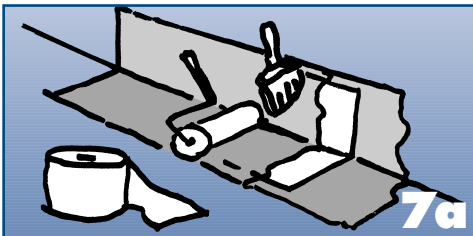
# KEMPEROL® AC AS A WATERPROOFING SYSTEM



## Application

KEMPEROL® AC Hardener must be added to KEMPEROL® AC. Apply KEMPEROL® AC evenly with the perlon roller or special brush (apply 2/3<sup>rd</sup> of the material to embed the fleece and the remaining 1/3<sup>rd</sup> to achieve saturation).

Usage guide: Approx. 2.5 kg/m<sup>2</sup>



Roll out the KEMPEROL® 165 Fleece and embed in the resin, removing any creases and air bubbles. The fleece is rolled directly into the liquid KEMPEROL® AC with a 5 cm overlap.

**After curing**  
seal the surface with  
KEMPEROL® AC Finish  
(figs. 9, 10, 11).

**Note:**  
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 sealant should be made with at least a 10 cm of overlap.

# KEMPEROL® AC AS A COATING

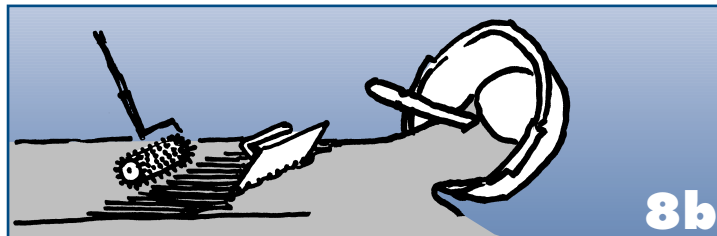
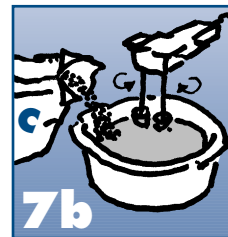


## New container

Transfer the KEMPEROL® AC and Hardener to a new container.

## Mixing

Add the KEMPEROL® AC Quartz Sand Mixture and stir in with a stirrer.



## Application

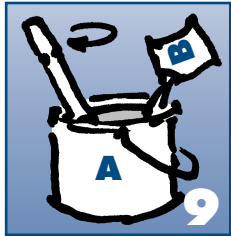
Apply the KEMPEROL® AC Coating evenly on the surface.

In one operation, apply with a 6 mm serrated ladle and draw off with the smooth side. Then aerate with a spiked roller.

Usage guide: approx. 5.2 kg/m<sup>2</sup>.

**After curing**  
seal the surface with  
KEMPEROL® AC Finish  
(figs. 9, 10, 11).

# KEMPEROL® AC FINISH AND MICROCHIPS

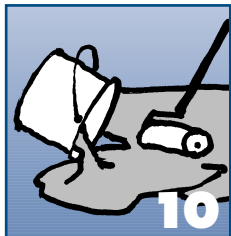


**Mixing**  
KEMPEROL® AC Hardener must be added to KEMPEROL® AC Finish.

The amount of hardener added depends on the respective material temperature (see the table below).

Stir rapidly but thoroughly.

Material temperature [°C]	KEMPEROL® AC hardener quantity [100 g bag to 5 kg]	KEMPEROL® AC hardener quantity [%]	KEMPEROL® AC	
			Pot life in drum [min]	Surface, hardened [min]
+ 5	2 bags	4%	20	45
+ 10	2 bags	4%	18	30
+ 20	1 bag	2%	15	30
+ 30	1/2 bag	1%	10	15



**Application**  
The KEMPEROL® AC Finish must be poured onto the surface immediately after mixing with the KEMPEROL® AC Hardener and distributed evenly.

Apply until saturated in one operation using a Perlon roller.

Usage guide: approx. 0.75 - 1 kg/m<sup>2</sup>.



## KEMPEROL® AC Microchips

The KEMPEROL® AC Microchips can be evenly blown into the still liquid material using a chip gun, or they can be manually scattered in.

## Storage

Store **KEMPEROL® AC Primer**, **KEMPEROL® AC** and **KEMPEROL® AC Finish** in sealed containers for up to approx. 12 months in a cool and dry place.

**KEMPEROL® Hardener** must be stored separately in a dry place and must be protected against sunlight.

**KEMPEROL® AC Quartz Sand Mixture** can be stored for up to 6 months in a cool and dry place. Keep the paper bags closed tight.

Store **KEMPEROL® Fleece** flat in a dry place.

## Priming

Pre-treat the substrate as per the priming recommendations.

## Usage guide/ coating thickness

**KEMPEROL® AC Primer:**  
300 – 500 g/m<sup>2</sup>

## KEMPEROL® AC:

As a waterproofing system:  
approx. 2.5 kg/m<sup>2</sup>

As a coating  
in connection with  
**KEMPEROL® AC Quartz Sand Mixture:**  
approx. 5.2 kg/m<sup>2</sup>

**KEMPEROL® AC Finish:**  
0.75 – 1 kg/m<sup>2</sup>

## Note for application:

When working, the surface temperature must be 3K above the dew point. If this temperature is not reached, a film with a separating effect can form on the surface being treated (DIN 4108 – 5 Tab. 1).

**Ensure sufficient ventilation when applying indoors or in situations where there is little exchange of air.**

**Wear protective clothing and breathing apparatus with an A2 filter.**

Clean tools immediately after use with **KEMPEROL® MEK Cleaning Agent**.

## Important note

For chemical resistance, consult the chemical resistance chart.

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: M 001, M 017.

## Disposal:

**KEMPEROL® AC** and  
**KEMPEROL® AC Finish**  
Cured: EAK 08 04 10  
Liquid: EAK 08 04 09

**KEMPEROL® AC Hardener** EAK 16 05 08

**Giscode:** RMA 10

**Published:**  
**Vellmar, June 2003**

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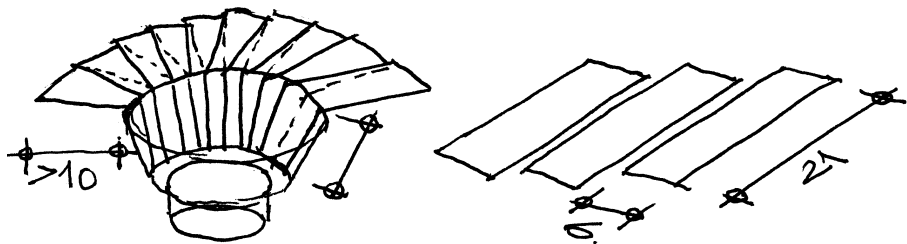
**KEMPER  
SYSTEM**

ROOF	PARKING DECK BRIDGE
BALCONY TERRACE	SPECIAL APPLI- CATIONS

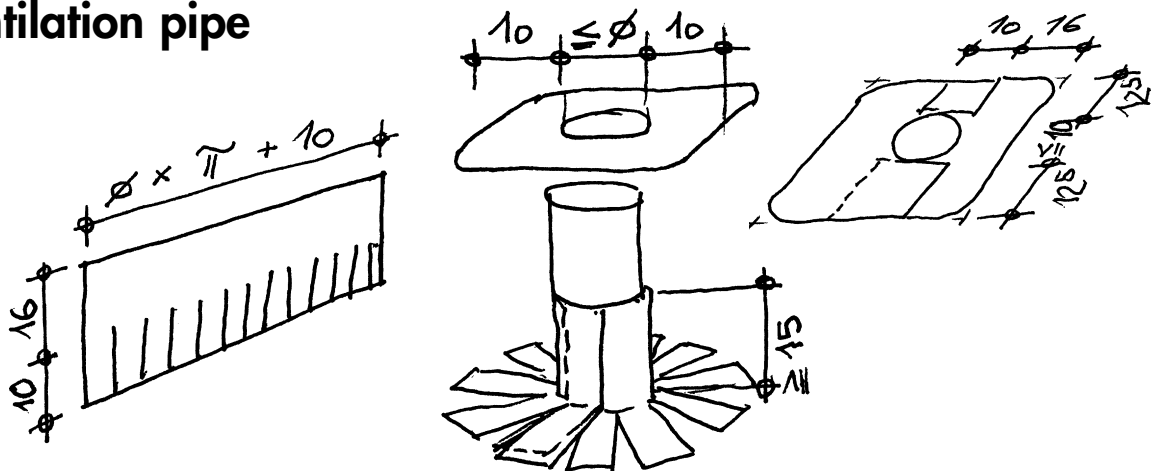
**TECHNICAL  
INFORMATION**

## Fleece sections

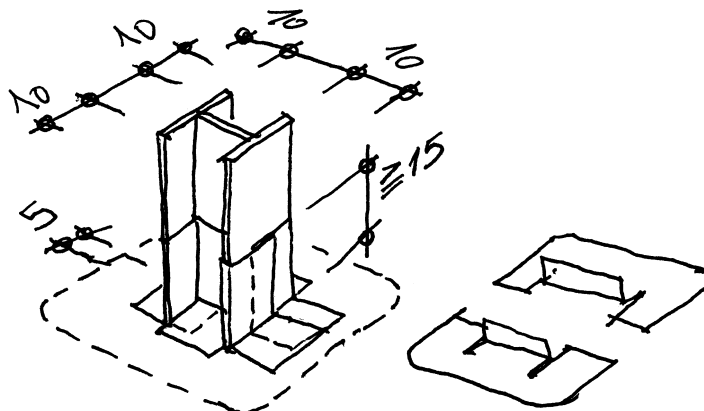
drain



ventilation pipe



double  
T-beam





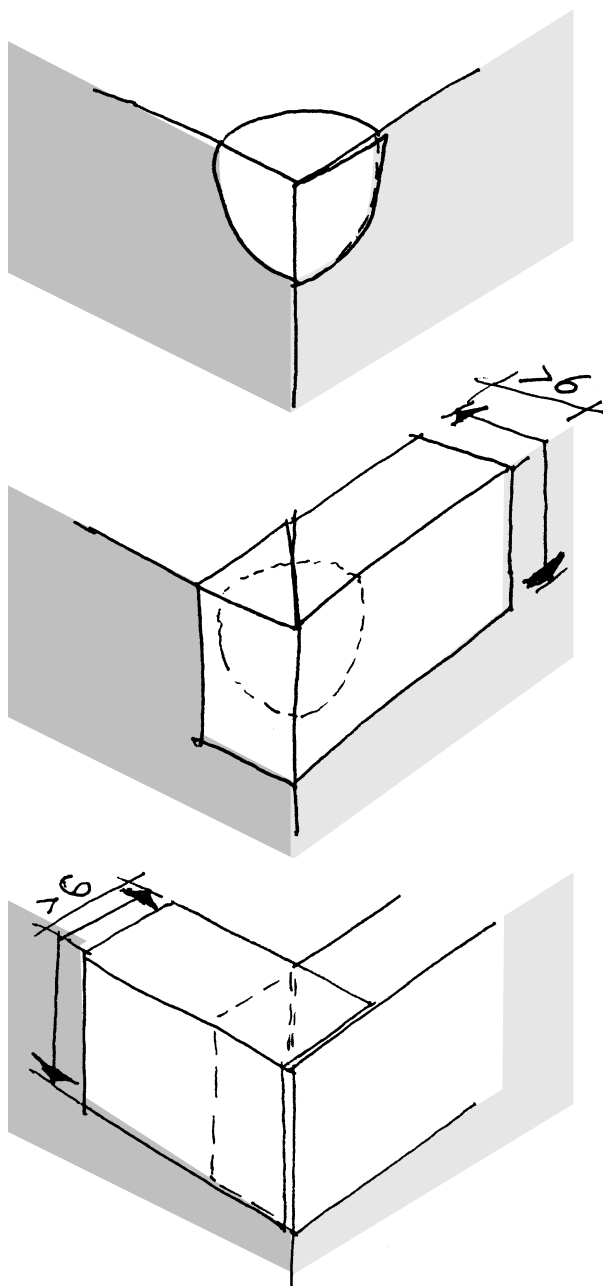
**KEMPER  
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ROOF	PARKING DECK BRIDGE
BALCONY TERRACE	SPECIAL APPLI- CATIONS

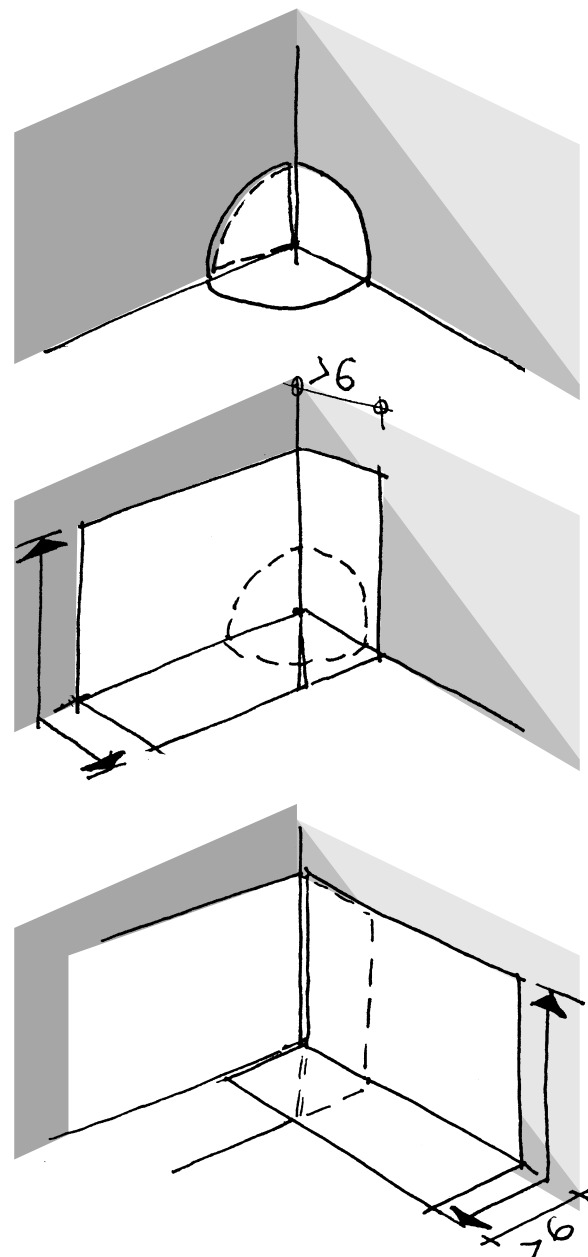
**TECHNICAL  
INFORMATION**

## Fleece sections

outer edge



inner edge





**KEMPER  
SYSTEM**

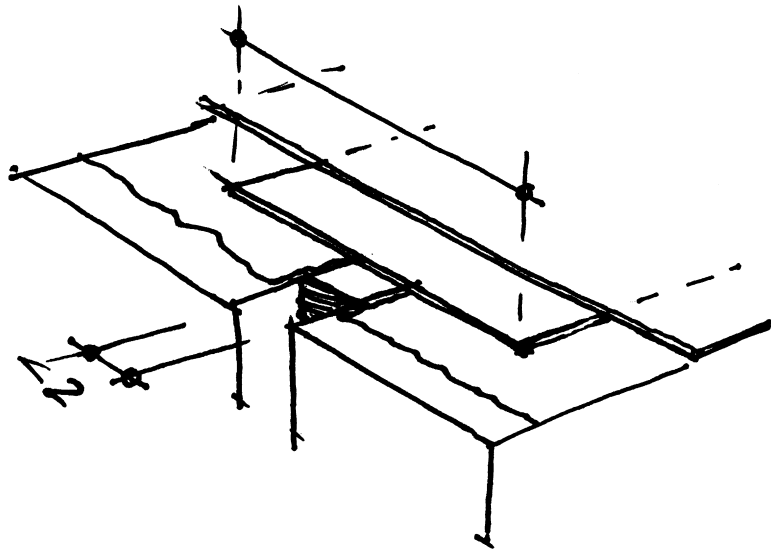
ROOF	PARKING DECK BRIDGE
BALCONY TERRACE	SPECIAL APPLI- CATIONS

**TECHNICAL  
INFORMATION**

## Fleece sections

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### Non-moving joint



### Moving joint

