



KEMPEROL System

KEMPEROL® TC

Uses

- As a protective finish
- On **KEMPEROL® 1K-PUR Waterproofing System**
- On **KEMPEROL® 2K-PUR Waterproofing System**
- On **KEMPEROL® V 210 Waterproofing System**
- On **KEMPEROL® BR Waterproofing System**
- On sound and dry substrates (e. g. screed, concrete, etc.)
- As a coating for :
 - Car parks, inner yards, ramps
 - Balconies and terraces
 - Corridors
 - Shops, halls and cellars

Features

- solvent-free
- odourless
- self-levelling
- can be walked on after a very short time
- wear-resistant
- long-term resistant

Composition

A solvent-free, 3-component coating made of polyurethane resin and a special filler delivered as a 3-component working unit.

Pack sizes

- 40 kg 3-component working unit consisting of:
- 15 kg component A
 - 5 kg component B
 - 20 kg component C
- 20 kg 3-component working unit consisting of:
- 7.5 kg component A
 - 2.5 kg component B
 - 10 kg component C

Shelf Life

Can be stored unopened for up to 6 months in a cool, dry, frost-free place.



Properties

Form	Comp. A liquid Comp. B liquid Comp. C solid
Colour	grey
Workability period* [min]	approx. 15
Rainproof* after [h]	approx. 4
Can be walked on* after [h]	approx. 4
Can be driven on* after [h]	approx. 8
Next coat must be applied until* [d]	max. 3

* 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

Approx. 3 to 4 kg/m² **KEMPEROL® TC** with

a) 3 - 5 kg/m² **KEMPERDUR®** Colour Quartz (0.4-0.8 mm) or

b) 5 - 7.5 kg/m² **KEMPERDUR®** Granite (1.0 - 2.0 mm) or

c) 4 - 6 kg/m² **KEMPERDUR®** Natural Quartz (0.7-1.2 mm) or

3 - 5 kg/m² **KEMPERDUR®** Natural Quartz (0.4-0.8 mm)

Application

Substrate preparation:

The substrate must be dry, sound and free from any material that would hinder adhesion. It has to be prepared accordingly and primed if necessary.

KEMPEROL® membranes require no further priming. Mineral substrates need to be primed according to priming recommendations. Porous substrates must be previously treated with a special slurry made of **KEMPEROL® EP-Primer** and **KEMPERDUR® Quartz Sand Mixture KR** in a ratio of 1:4. (See also technical datasheet of **KEMPEROL® EP-Primer**).

Apply only when substrate and ambient temperature exceed 5 °C. 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).

If **KEMPEROL® TC** is applied on top of a waterproofing system, this has to adhere fully to the surface. Any air bubbles have to be removed.

KEMPEROL® TC can be applied on an existing waterproofing system according to the times given for further coating in the respective technical data sheet. If **KEMPEROL® TC** is applied on a **KEMPEROL® V 210** or **BR waterproofing system**, clean all transition areas and joints with **KEMPEROL® Cleaning Agent MEK**. Concrete and screeds must be clean (residual moisture in the upper 2 cm < 5 %) and sound. Former waterproofing, coatings or screeds have to be removed completely. Please consider the tolerances for evenness according to DIN 18202.

Mixing :

Add component B to component A and mix thoroughly until no streaks are visible. To avoid mixing errors, the mixture is poured into an empty container and stirred again. Add **KEMPEROL® TC filler (component C)** portion by portion while the mixing machine is slow-running and mix until a homogeneous mixture is achieved. The prepared mixture should be distributed on the surface to be coated with a trowel or squeegee. When coating slopes of more than 3 % inclination, add one pack **KEMPEROL® Thixotropic Additive** to component A of a 20 kg working pack before mixing it with component B. With the **KEMPEROL® TC Accelerator** the processing and curing time of **KEMPEROL® TC** can be reduced.

Mineral scattering on parking decks:

After the setting has started, scatter **KEMPERDUR® Colour Quartz**, **KEMPERDUR® Natural Quartz** or **KEMPERDUR® Granite** in the still wet layer of **KEMPEROL® TC** (within approx. 30 minutes - according to the surrounding temperatures and weather conditions). Ensure full surface coverage.

After hardening - depending on climatic conditions - sweep away the excess and seal the entire area with **KEMPEROL® Top Coat**, **KEMPERDUR® Colour Top Coat** or **KEMPEROL® AC Finish**.

On balconies and terraces:

KEMPEROL® TC can have a finish in different colours by applying **KEMPERDUR® Deko** or **KEMPERDUR® Deko 2K** . In this case, de-aerate the freshly laid **KEMPEROL® TC** immediately with a spike-tooth roller or strew **KEMPERDUR® Colour Quartz** in to obtain a quartz sand coating (sealing with **KEMPERDUR® Deko transparent**). On balconies and terraces, **KEMPEROL® TC** can be used as a levelling layer to compensate for unevenness resulting from fleece overlaps. If **KEMPEROL® TC** is used under tiles, a coat of **KEMPEROL® EP-Primer** with **KEMPERDUR® Natural Quartz (0.7-1.2 mm)** sprinkled in provides suitable alkali protection (see also TI No.15).

Personal protective equipment 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.

Important notice

Always add component C (filler) completely to the mixture. Avoid to split the paper bag content. Fresh coatings have to be protected against direct influence of dirt, humidity and water for at least 4 hours.

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

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.

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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

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

solid

EWC 19 12 09

General information

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KEMPEROL® SYSTEM

**KEMPEROL®
TC Accelerator**

Uses

- Accelerates the reaction time and curing time of **KEMPEROL® TC**

Features

- Accelerates the setting of the resin
- Surface can be walked on earlier
- Reduces times given in the technical datasheet of **KEMPEROL® TC** by 20 to 25 %

Composition

Accelerator based on a special activator.

Pack sizes

50 g funnel bottles

Shelf Life

Cool and dry, can be stored for 6 months. Bottles to be kept tightly shut.

Properties

Form	liquid
Colour	light yellow

Usage guide

- 50 g funnel bottle
for a 20 kg **KEMPEROL® TC** working unit



Application

Thoroughly mix **KEMPEROL® TC Accelerator** into component A of the **KEMPEROL® TC** resin until no streaks are visible. Mixing time is approximately 1 minute. At temperatures of 10 °C or below, we recommend storing the materials at room temperature. Personal protective equipment 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.

Important notice

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

Disposal

liquid EWC 07 02 04

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Priming Recommendation

Published May 2006

KEMPEROL® TC Coating

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® EP-Primer	KEMPEROL® D-Primer	KEMPEROL® R-Primer	KEMPEROL® AC-Primer
Asphalt, weathered	Indiv. Testing			
Concrete, screed	▲ 1	▲	▲	▲ 7
Plastic-modified screed and mortar (PCC)	▲ 1	▲	▲	
Zinc, galvanised steel	▲ 2	▲ 1,2	▲ 1,2	
Copper, lead	▲ 1,2	▲ 1,2	▲ 1,2	
Steel, special steels (V2A, V4A), Aluminium	▲ 1,2,3	▲ 2,3	▲ 2,3	
Wood panels, plywood, chipboard, OSB	▲ 6	▲ 6	▲ 6	

1 If there are special requirements and environments (wind suction, small connections etc.), the primer with this mark should be selected.

2 Mechanical pre-treatment and cleaning with KEMPEROL Cleaning Agent MEK results in an improvement in the adhesion properties.

3 Low adhesion - additional mechanical fastening is recommended.

6 Partition layer required!

7 Application of next coating on KEMPEROL AC-Primer within 24 h.

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.



**KEMPER
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TECHNICAL INFORMATION

KEMPEROL® SYSTEM

KEMPEROL® D-Primer

Uses

- For **priming** and durable adhesion between the pre-treated substrate and **KEMPEROL®** waterproofing membranes.
- For making a **bonding coat** made from **KEMPERDUR® Quartz Sand 0,7 - 1,2 mm** in conjunction with **KEMPERDUR® Sand Coating**
- As component for trowel-applied filler and repair mortar
- On virtually all substrates
- For new construction and remedial projects

Features

- universal use (see priming recommendations)
- solvent-free
- excellent adhesion

CE-Marking

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

Composition

A solvent-free, 2-component primer based on polyurethane resin.

Pack sizes

1 kg sachet, 3 kg and 5 kg tin

Shelf Life

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



Properties

Form	liquid
Colour	Comp. A cream Comp. B dark brown
Workability period* [min]	approx. 25
Rainproof* after [h]	approx. 3
Can be walked on* after [h]	approx. 12
Next coat can be applied after* [h]	approx. 12

* 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:

as a primer approx. 500 g/m²

as a bonding coat approx. 300-500 g/m²

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.

Prime 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, the surface to be primed can form a moisture film and cause separation (DIN 4108 - 5 Tab.1).

A. Packaging: 1 kg-sachet

Remove the bag from the aluminium packaging. Knead component A (cream/white coloured) thoroughly (until uniform colour achieved). Pull away the rubber cord separating the two components, so that both components A and B can be mixed together. Now knead the bag quickly and thoroughly (approx. 60 secs.) so that a homogenous, streak-free primer is formed.

Cut off one corner of the bag and pour the **KEMPEROL® D-Primer** onto the surface and work quickly.

B. Packaging: 3 kg- or 5 kg-tin

Stir **KEMPEROL® D-Primer** component A thoroughly. Add component B to component A and mix thoroughly with a stirring stick or a power drill on a slow speed. The mixture should be a uniform colour, free from streaks. Mixing time is approximately 2 minutes. Apply within 25 minutes.

Apply the primer evenly with a nylon roller, ensuring complete substrate coverage and avoiding accumulation of material.

After approximately 12 hours (depending on weather conditions, such as wind, ambient temperature and humidity) and provided that the primed surface is tack-free and dry, further suitable **KEMPER SYSTEM products** can be applied.

Important note:

KEMPEROL® D-Primer must be overcoated within 8 days of application, otherwise adhesion of subsequent coats cannot be guaranteed and re-priming will be necessary. To avoid this, the wet primer can be blinded with **KEMPERDUR® Natural Quartz 0.7-1.2 mm**, allowing recoating to take place unhindered after this 8 day period.

Use as levelling mortar:

Before applying the levelling mortar, the substrate has to be primed with **KEMPEROL® D-Primer**. In order to level surface irregularities of 2.0 to 6.0 mm in horizontal surfaces, apply a fine mortar made of **KEMPEROL® D-Primer** and **KEMPERDUR® Quartz Sand Mixture KR** in a ratio of 1:4 on the pre-treated and primed substrate.

Use as repair mortar:

Before applying the repair mortar, the substrate has to be primed with **KEMPEROL® D-Primer**. In order to level surface irregularities, shrinkage and hollows of up to 20.0 mm apply a fine mortar made of **KEMPEROL® D-Primer** and **KEMPERDUR® Quartz Sand Mixture KR** in a ratio of 1:9 on the pre-treated and primed substrate. This ratio can vary according to the application.

Personal protective equipment 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.

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.

Cannot be used in swimming pools!

Disposal

Components A+B liquid	EWC 08 04 09
Components A+B cured	EWC 08 04 10

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.

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**KEMPER
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TECHNICAL INFORMATION

KEMPEROL® SYSTEM

KEMPEROL® EP-Primer

Uses

- For **priming** and durable adhesion between the pre-treated substrate and **KEMPEROL®** waterproofing membranes.
- As **bonding agent** for trowel-applied filler and repair mortar
- As **alkaline protection**
- For making a **bonding coat** made from **KEMPERDUR® Quartz Sand 0,7 - 1,2 mm** in conjunction with **KEMPERDUR® Sand Coating**
- For new construction and remedial projects

Features

- universal use (see priming recommendations)
- solvent-free
- excellent adhesion
- high penetration capability

CE-Marking

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

Composition

2-component primer based on epoxy resin.

Pack sizes

1 kg, 3 kg and 10 kg

Shelf Life

Can be stored unopened for up to 6 months in a cool, dry, frost-free place. At temperatures below 5 °C, crystallisation may occur. This can be reversed by careful heating (40 °C).



Properties

Form	liquid
Colour	Comp. A yellowish Comp. B brownish
Workability period* [min]	approx. 25
Rainproof* after [h]	approx. 6
Can be walked on* after [h]	approx. 16
Next coat can be applied after* [h]	approx. 16

* 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:

as primer approx. 500 g/m²

as a bonding coat approx. 300-500 g/m²

as alkaline protection approx. 400-600 g/m².

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.

Prime only when substrate and ambient temperature exceed 10 °C and are declining. During application the surface temperature must be 3 °C above the dew point. If the dew point is not reached, the surface to be primed can form a moisture film and cause separation (DIN 4108 - 5 Tab.1).

A. Packaging: 1 kg-sachet

Remove the bag from the aluminium packaging. Pull away the rubber cord separating the two components, so that both components A and B can be mixed together. Now knead the bag quickly and thoroughly (approx. 60 secs.) so that a homogenous, streak-free primer is formed.

Cut off one corner of the bag and pour the **KEMPEROL® EP-Primer** onto the surface and work quickly.

B. Packaging: 3 kg- or 10 kg-tin

Mix component B into component A thoroughly with a stirring stick or a power drill on a slow speed. The mixture should be a uniform colour, free from streaks. Mixing time is approximately 2 minutes. Apply within 25 minutes.

To avoid mixing errors, the complete mixture should be poured into another container and stirred again thoroughly.

Apply the primer evenly with a perlon roller, ensuring complete substrate coverage and avoiding accumulation of material.

Use as primer and bonding coat

Apply the primer and immediately lightly sand with **KEMPERDUR® Natural Quartz 0.7-1.2 mm** (usage approx. 500 - 1000 g/m²). After approximately 16 hours (depending on weather conditions, such as wind, ambient temperature and humidity) and provided that the primed surface is tack-free and dry, further suitable **KEMPER SYSTEM products** can be applied.

Use as levelling mortar

Before application of the mortar, **KEMPEROL® EP-Primer** should be applied to the substrate. **KEMPEROL® EP-Primer** is mixed with **KEMPERDUR® Quartz Sand Mixture KR** in a ratio of 1 : 4 and applied to the prepared and primed substrate to fill voids between 2 and 6 mm.

Use as repair mortar

Before application of the repair mortar, **KEMPEROL® EP-Primer** should be applied to the substrate. **KEMPEROL® EP-Primer** is mixed with **KEMPERDUR® Quartz Sand Mixture KR** in a ratio of 1 : 9 to fill cracks and voids of up to 20 mm in depth. The mixing ratio can vary depending on substrate condition.

Use as alkali protection layer:

To form an alkali-resistant barrier (see also TI No. 15), apply a coat of **KEMPEROL® EP-Primer** to the **KEMPEROL®** waterproofing membrane (approx. 400-600 g/m²). Immediately after application, strew in approx. 500 - 1000 g/m² **KEMPERDUR® Natural Quartz 0.7-1.2 mm**, ensuring full surface coverage.

Personal protective equipment 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.

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.

Cannot be used in swimming pools!

Disposal

Components A+B liquid	EWC 08 04 09
Components A+B cured	EWC 08 04 10

GISCODE

RE2

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.

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TECHNICAL INFORMATION

KEMPEROL® SYSTEM

KEMPEROL® R-Primer

Uses

- For priming and durable adhesion of **KEMPEROL®** waterproofing systems.
- On virtually all substrates
- For new construction and remedial projects

Features

- universal use (see priming recommendations)
- solvent-free
- excellent adhesion
- fast curing

CE-Marking

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

Composition

A solvent-free, 2-component primer based on polyurethane resin.

Pack sizes

1 kg sachet and 3kg tin

Shelf Life

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



Properties

Form	liquid
Colour	Comp. A cream Comp. B dark brown
Workability period* [min]	approx. 8
Rainproof* after [h]	approx. 2
Can be walked on* after [h]	approx. 2-3
Next coat can be applied after* [h]	approx. 2-3

* 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: approx. 500 g/m².

Application

Substrates must be dry (in concrete, the residual moisture in the upper 2 cm must be < 5 %), stable and free from any materials which may impair adhesion. Prepare the substrate in accordance with the manufacturer's guidelines and with TI No. 21.

Priming recommendations must 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).

A. Packaging: 1 kg-sachet

Remove the bag from the aluminium packaging. Knead component A (cream/white coloured) thoroughly (until uniform colour achieved). Pull away the rubber cord separating the two components, so that both components A and B can be mixed together. Now knead the bag quickly and thoroughly (approx. 60 secs.) so that a homogenous, streak-free primer is formed.

Cut off one corner of the bag and pour the **KEMPEROL® R-Primer** onto the surface and work quickly.

B. Packaging: 3 kg-tin

Stir **KEMPEROL® R-Primer** component A thoroughly. Mix component B into component A thoroughly using the mixing stick until it is free from streaks and bubbles. Mixing time is approximately 60 secs. Use within 6 minutes.

Prime at least once until saturated. Spread out evenly using a nylon roller, avoiding any build-up of material. After approximately 12 hours (depending on weather conditions, such as wind, ambient temperature and humidity) and provided that the primed surface is tack-free and dry, further suitable **KEMPER SYSTEM products** can be applied.

Important note:

KEMPEROL® R-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/m²), allowing recoating to take place unhindered after this 8 days period.

Personal protective clothing must 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.

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.

Cannot be used in swimming pools!

Disposal

Components A+B liquid	EWC 08 04 09
Components A+B cured	EWC 08 04 10

GISCODE

PU40

General information

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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% KEMPEROL® AC Hardener)	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/m². Usage must not exceed 750 g/m², 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/m²), 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

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.

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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

KEMPEROL® AC Hardener

Uses

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

CE-Marking

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

Composition

Reactive agent based on 50 % dibenzoyl peroxide in stabilizer

Pack sizes

20 g, 100 g

Shelf Life

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

Form	powder
Colour	white

Usage guide

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



Application

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

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

Hardener EWC 16 05 08

GISCODE

RMA10

General information

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Published: Vellmar, February 2004



**KEMPER
SYSTEM**

A KEMCO Company

TECHNICAL INFORMATION

KEMPERDUR® SYSTEM

KEMPERDUR® Granite (1.0-2.0 mm)

Uses

- To enhance the decorative appeal of coatings made of KEMPEROL® TC and KEMPERDUR® Granite (1,0- 2,0 mm)
- For new construction and remedial projects

Features

- Temperature and weather resistant
- Non-slip
- Natural product

Composition

Mineral quartz (1.0-2.0 mm) (Gneis / Granodiorit)

Pack sizes

25 kg

Shelf Life

Cool and dry.

Properties

Form	solid, granular
Color	red mix



Usage guide

With KEMPEROL® TC: 5 to 7,5 kg/m²

Application

Please consider our technical data sheet for KEMPEROL® TC.

Disposal

Solid >EWC 19 12 09

General information

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Published : Vellmar, August 2005



KEMPERDUR® SYSTEM

**KEMPERDUR®
Colour Quartz
(0.4 - 0.8 mm)**

Uses

- To enhance the decorative appeal of wearing coatings
 - KEMPEROL® TC
 - KEMPERDUR® Quartz coating made of KEMPERDUR® Colour Quartz (0.4 - 0.8 mm) to be sprinkled in KEMPERDUR® Deko transparent
- As a coating for concrete, screed, KEMPEROL® waterproofing membranes or existing ceramic coatings
- For new construction and remedial projects

Features

- light-stable
- temperature and weather resistant
- withstands foot traffic

CE-Marking

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

Composition

Colour quartz 0.4 - 0.8 mm

Pack sizes

25 kg

Shelf Life

Store in a cool and dry environment.



Properties

Form	solid, granular
Standard colours	mottled, ready-to-use mixture: grey, anthrazite
Special colours	red, green

Application

See technical data sheet KEMPERDUR® Deko transparent and KEMPEROL® TC.

Disposal

solid	EWC 19 12 09
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General information

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Published: Vellmar, April 2005



KEMPERDUR® SYSTEM

KEMPERDUR®
Natural Quartz
(0.4 - 0.8 mm)

Uses

- Mixed with KEMPEROL® D-Primer or KEMPEROL® EP-Primer as trowel applied filler on concrete, screed, waterproofing membranes or existing ceramic coatings
- To be strewed into KEMPEROL® TC
- For new construction and remedial projects
- For indoor and outdoor use

Features

- kilned dried silica
- special grain size
- system compatible and with grain size adapted to the specific purpose

CE-Marking

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

Composition

Natural quartz with consistent particle size

Pack sizes

25 kg

Shelf Life

Store in a cool and dry environment.

Properties

Form	solid, granular
Colour	natural



Usage guide

As trowel applied filler: approx. 1.5 kg/m² for each mm coating

Application

A filler consisting of KEMPEROL® D-Primer or KEMPEROL® EP-Primer and KEMPERDUR® Natural Quartz 0.4 – 0.8 mm should be applied at a ratio of 1:3 to 1:4 wet-on-wet or after hardening of the primer (KEMPEROL® R-Primer or KEMPEROL® EP-Primer) to even out the substrate or to ensure pore closure.

When strewed into KEMPEROL® TC, see the respective technical data sheet.

Personal protective equipment should be worn.

Clean the tools immediately after use with KEMPEROL® Cleaning Agent MEK. Rub KEMPER SYSTEM skin care cream into the skin.

Disposal

solid EWC 19 12 09

No hazardous waste. Normal disposal.

General information

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Published: Vellmar, June 2005



KEMPERDUR® SYSTEM

KEMPERDUR®
Natural Quartz
(0.7 - 1.2 mm)

Uses

- As bonding coat
 - with KEMPEROL® D-Primer
 - KEMPEROL® EP-Primer and KEMPEROL® 1K-Primer to be sprinkled in - on concrete, screed or waterproofing membranes (see priming recommendations)
- As alkaline protection and to be strewed into KEMPEROL® TC
- For new construction and remedial projects
- For indoor and outdoor use

Features

- kilned dried silica
- special grain size
- system compatible and with grain size adapted to the specific purpose

CE-Marking

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

Composition

Natural quartz with consistent particle size

Pack sizes

25 kg

Shelf Life

Store in a cool and dry environment.

Properties

Form	solid, granular
Colour	natural



Usage guide

As a bonding coat: approx. 500 - 1000 g/m²
As alkali protection layer: approx. 500 - 1000 g/m²

Application

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 surfaces to be treated and cause separation (DIN 4108-5 Tab.1).

Application as a bonding coat

The substrate must be dry, sound and free from any material that would hinder adhesion. All areas should be appropriately prepared and primed with KEMPEROL® D-Primer or with KEMPEROL® EP-Primer. Approx. 500 – 1,000 g/m² KEMPERDUR® Natural Quartz 0.7– 1.2 mm is sprinkled as a bonding coat into the wet primer layer.

As a bonding coat for KEMPERDUR® Sand Coating on KEMPEROL® Waterproofing Systems, the KEMPEROL® 1K-Primer can also be used.

Application as alkaline protection

KEMPEROL® waterproofing systems require a coat of KEMPEROL® EP-Primer (see TI No. 15) to protect them from alkaline media. Sprinkle KEMPERDUR® Natural Quartz 0.7-1.2 mm into the wet primer layer, ensuring full surface coverage (usage rate approx. 500 –1.000 g/m²).

When strewed into KEMPEROL® TC, see respective technical data sheet.

Personal protective equipment should be worn.
Clean the tools immediately after use with
KEMPEROL® Cleaning Agent MEK. Rub KEMPER
SYSTEM skin care cream into the skin.

Disposal

solid EWC 19 12 09
No hazardous waste. Normal disposal.

General information

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Published: Vellmar, June 2005



KEMPEROL® Accessories

**KEMPEROL®
Top Coat**

Uses

- As a top coat for **KEMPERDUR® Colour Quartz** scatterings
- As a top coat on **KEMPEROL® Waterproofing Systems** for special constructions
- For new construction and remedial projects

Features

- dirt-repellent
- easy to clean
- light-stable

CE-Marking

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

Composition

Solvent-containing, one-component top coat based on a light-stable polyurethane resin.

Pack sizes

10 kg

Shelf Life

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

Properties

Form	liquid
Colour	clear
Rainproof* after [h]	approx. 3
Can be walked on* after [h]	approx. 12
Cured* after [d]	approx. 3

* 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 of the substrate:
approx. 200 g/m²

Application

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

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

Apply **KEMPEROL® Top Coat** with a nylon roller, in one operation, to cover the entire surface.

For application in enclosed areas ensure there is sufficient ventilation. Avoid direct contact with skin.

Personal protective equipment 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. 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

General information

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

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Published: Vellmar, December 2006



**KEMPER
SYSTEM**

A KEMCO Company

TECHNICAL INFORMATION

KEMPERDUR® SYSTEM

KEMPERDUR® Colour Top coat

Uses

- To enhance the decorative appeal of trafficable **KEMPEROL® TC** surfaces
- As a top coat for **KEMPERDUR® natural quartz** when scattered into **KEMPEROL® BR, KEMPEROL® V 210, KEMPEROL® 2K-PUR** waterproofing system
- As a top coat for **KEMPEROL® waterproofing systems** on special constructions
- For markings

Features

- One component
- Light-stable
- Decorative

Composition

Solvent-containing, one-component coating based on a light-stable polyurethane resin.

Pack sizes

10 kg

Shelf Life

Can be stored unopened for up to 6 months in a cool, dry, frost-free place.



Properties

Form	liquid
Standard colour	stone grey
Special colours	light grey, pure white, anthracite
Rainproof* after [h]	approx. 3
Can be walked on* after [h]	approx. 12
Can be driven on* (air-rubber) after [h]	approx. 24
Cured* after [d]	approx. 3

* Depending on weather conditions such as wind, humidity and temperature.

Usage guide

Depending on the nature of the substrate :
approx. 300 to 500 g/m².

For **KEMPERDUR® Color Top Coat in pure white** :
approx. 1 kg/m².

Application

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

Apply only when substrate and ambient temperature exceed 5 °C. 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).

Apply **KEMPERDUR® Colour Top Coat** with a perlon roller, in one operation, to cover the entire surface.

On vertical surfaces and for color top coat in pure white, apply the recommended quantity in more than one operation (especially on dark surfaces).

Ensure there is sufficient ventilation for application in enclosed areas.

Personal protective equipment should be worn.

Remark

Please consider our recommendations in TI No. 23 and No. 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

General information

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Published : Vellmar, August 2006