

KEMPERDUR TC coating



Uses

- On KEMPEROL 1K-PUR waterproofing
- On KEMPEROL 2K-PUR waterproofing
- As a wearing surface
- On solid load-bearing substrates (e.g.: concrete, screed etc.)
- For the coating of:
 - parking decks, driveways, courtyards and ramps
 - balconies, terraces and covered walkways
 - shop floors, halls and basements

Characteristics

- Odor-neutral
- Solvent-free
- 3-component
- Early accessibility
- Self-leveling
- High wear protection
- Long-term resistant
- Not color-stable
- Resin base: Polyurethane resin

Shelf Life

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

Pack sizes

12.5 kg pack

Pack consisting of:

- 4.69 kg component A
- 1.56 kg component B
- 6.25 kg component C

6.25 kg pack as a additional coating applied by roller (without comp. C filler)

Usage guide

at least 4.0 kg / m² KEMPERDUR TC coating with

- at least 4 kg/m² KEMPERDUR CQ 0408 Colorquartzor
- at least 4 kg/m² KEMCO NQ 0712 Natural Quartzor
- at least 4 kg/m² KEMCO NQ 0408 Natural Quartz.

Consumption when applied with a roller:

at least 0.4 kg/m²

Properties

Form	Comp. A liquid Comp. C granular
Workability time *	approx. 15 min
Rainproof after*	approx. 4 h
Can be walked on after*	approx. 4 h
Ready for vehicular traffic *	approx. 8 h
Cured after*	approx. 8 h
Further coating after *	approx. 4 h
Next coat must be applied within*	max. 3 d

* 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.

Application

Preparing the substrate

Concrete must be clean, dry (residual moisture in the upper 2 cm less than 5 %) and sound. Bituminous waterproofings or laitance should be completely removed before waterproofing or coating. The substrate should be prepared in such a way that an adhesive pull strength of > mid-1.0 N/mm² and the smallest individual value > 0.8 N/mm² is achieved. Observe the flatness tolerances defined in DIN 18202. Shrinkage cracks have to be closed. If the coating is applied on a waterproofing membrane, the membrane must adhere to the entire surface.

If the coating is used without waterproofing on concrete and screed surfaces indoors and outdoors, it must be primed with KEMPERTEC EP5 primer as well.

Can be applied on an existing waterproofing system according to the times given for further coating in the respective technical data sheet. The priming recommendations have to be observed.

Coating requirement

Only apply when the substrate and ambient temperatures exceed +5°C.

The maximum application temperature is 30°C.

In case of temperatures between +10 ° C and +30 ° C, acclimatize the material for 24h before use.

The viscosity increases as the temperature drops.

If the temperature falls below the dew point during application, moisture which can negatively affect adhesion may form on the surface (DIN 4108 - 5 Tab.1).

High air humidity (>80%) can affect the surface structure.

- Air humidity: <80%
- Substrate temperature >3K above dew point
- Air temperature >5°C
- Contraction joints and shrinkage cracks must be closed off.

Mixing

Add component B to component A and mix until you have a streak-free mixture.

Then add the entire package of KEMPERDUR TC surfacing component C (filler) gradually and stir in with a slow-running mixing device - mix until you achieve a homogeneous mixture. The ready-to-use mixture must be spread evenly over the surface to be coated using a scraper or a toothed trowel. In case of surfaces with a slope higher than 3%, in the components A 2 % KEMCO TX Thixotropic Additive should be stirred before mixing. KEMPERDUR TC coating should be provided with a mineral spreading or a coating, because KEMPERDUR TC coating it is not color-stable.

To prevent mixing errors, the mixture should be placed in another container and re-mixed.

Mineral scattering on parking decks

The still wet KEMPERDUR TC coating is scattered liberally after approx.30 min with

- KEMPERDUR CQ 0408 Colorquarz
- KEMCO Coloured quartz
- KEMCO NQ 0712 Natural Quartz
- or KEMCO NQ 0408 Natural Quartz

over the entire surface (leaving no gaps). After curing - depending on the weather conditions - brush off the excess material and seal with KEMPERDUR Finish glossy or KEMPERDUR Finish matt.

On balconies and patios

KEMPERDUR TC coating can be sealed with a coloured finish using KEMPERDUR Deko 2K and KEMPERDUR Deko. After application, a spiked roller is used to remove any air bubbles from the still wet KEMPERDUR TC coating or KEMPERDUR CQ Quartz is scattered as an alternative quartz layer (sealing with KEMPERDUR Deko transparent). In this field of application (e.g. with non-woven fabric overlaps), KEMPERDUR TC coating can also be used as a leveling layer in combination with KEMPERTEC EP5 primer or KEMPERTEC AC Primer as an alkali protection layer under tile coverings (see also Technical Information TI 15 - Alkalinity).

As a coating applied by roller

The KEMPERDUR TC coating can also be used as brick-on-end course on a cured KEMPERDUR TC coating. For this purpose, KEMPERDUR® TC is used without the Component C (filler). Mix component B into component A until you achieve a streak-free mixture, transfer the mixture into a new container and apply with a roller with a consumption of approx. 0.4 kg/m² onto the surface. After a curing time of approx. 15-20 min the desired quartz sand can be scattered onto the whole surface (leaving no gaps) and then be sealed.

PPE

Personal protective equipment should be worn.

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

Please consider the following technical information:

- TI 15 - alkalinity
- TI 21 - substrate preparation
- TI 29 - slip resistance

Important notes

Always add the whole contents of the container of component C (filler material) to the mixture. Do not divide the contents of the container up. Fresh coatings have to be protected against contamination, humidity and moisture for a period of 4 hours.

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.

Depending on the nature and condition of the substrate, unevenness or overlaps may remain visible after application of the coating. This can be prevented by a higher level of consumption of the coating product, which has to be factored in.

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.

Floor finishes are subjected to mechanical stress and should therefore be inspected / maintained on a regular basis. Refinishing may be required depending on the level of wear.

Disposal

Dispose of in accordance with the official regulations. Further information on disposal can be found in the respective safety data sheets, Section 13.

GISCODE

General information

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 our technical application advice only reflect the current state of knowledge in our company and our experience with our products. With each new edition, the previous technical information loses its validity. It is therefore essential that you always have the latest data sheet to hand. The latest version can be downloaded from kemperol.de under Media > Downloads. When applying and using our products, a detailed, object-related, qualified check is required in each individual case to determine whether the respective product and/or the application technology meets the specific requirements and purposes. We are only liable for the freedom from defects of our products, but only if our respective product has been used and processed in accordance with our processing guidelines in the technical data sheets. The proper and professional processing of our products is therefore the sole responsibility and liability of the user (processor). Our products are sold exclusively on the basis of our terms and conditions of sale and delivery.

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