

KEMPERDUR HB thick coating



Uses

- For new buildings and repair work
- On KEMPEROL 1K-PUR Sealing
- On KEMPEROL 2K-PUR Sealing
- To coat and enhance the decorative appeal of:
 - balconies and terraces
 - walkways and stairways
 - floors in commercial, retail and leisure premises
 - basements, etc.
- As a coating for concrete and screed - indoors and outdoors

Characteristics

- Homogeneous
- UV-resistant
- Decorative
- Lightfast
- Solvent-free
- 3-component
- High wear protection
- Resistant to flying sparks and radiant heat according to DIN EN 13501-5
- Resin base: Polyurethane resin
- Special KEMPERDUR quartz mixture as component C

Pack sizes

15 kg 3-component working unit

Shelf Life

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

Usage guide

Depending on the nature of the substrate: at least 6 kg/m² for a layer thickness of approx. 3 mm.

Vertical surfaces: KEMPERDUR HB thick coating without quartz sand mixture or KEMPERDUR Deko 2K to be used observe the Technical information sheet of KEMPERDUR Deko 2K!

Properties

Form	Comp. A liquid Comp. C granular
Colour	Light grey
Workability time *	approx. 30 min
Rainproof after*	approx. 5 h
Can be walked on after*	approx. 24 h
Cured after*	approx. 3–7 d
Further coating after *	approx. 12 h

* 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.

CE marking

Component to 4	ETA 03/0043 ETA 03/0044
----------------	----------------------------

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 EP/ EP5 Primer as well.

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.

During application, the surface temperature must be 3K above the dew point.

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
- KEMPEROL 1K-PUR Sealing it must be hardened for at least 7 days and adhere to the entire surface; air pockets and defects must be repaired before further coating.
- KEMPEROL 2K-PUR Sealing it must be hardened for at least 24 hours and adhere to the entire surface; air pockets and defects must be repaired before further coating.
- A fully bonded, 2 mm profile can be used as an edge finish.

For a level surface, we recommend to lay the KEMPEROL waterproofing butt-joined in combination with the KEMCO RS Reinforcement Strip .

Mixing (for horizontal surfaces, max. 2% slope)

Stir component A, add component B and mix with a slow-running mixing device, then add component C and mix with the slow-running mixing device, pour into a clean container and mix again. At a lesser slope and/or lower temperatures, component C can be reduced by 10 to 20%.

Application

Use a notched trowel (V notch) to distribute the ready-to-use mixture on the surface being coated, a smoothing trowel to ensure a uniform surface appearance and then immediately use a spiked roller to remove any air bubbles. Within the workability time, the product KEMPERDUR CS Microchips or KEMPERDUR CL Chips is blown evenly onto the surface thus produced using a chip gun or sprinkled onto the surface by hand.

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 24 - cleaning and maintenance
- TI 29 - slip resistance

Important notes

Fresh coatings have to be protected against direct influence of dirt, humidity and water for at least 5 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.

Please note that certain media (e. g. rust, copper, petals, red wine, etc.) can, due to contained pigments or antioxidant agents (e.g. in rubber tyres), cause permanent discolouration of the coating which, however, does not impair the protection provided by it.

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

liquid	EAK 08 04 09
cured	EAK 17 02 03

GISCODE

PU40

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 application instructions reflect the current level of knowledge in our company and the experience with our products. In each case, the new edition supersedes the previous technical information and renders it invalid. It is therefore necessary that you always have to hand the current code of practise. The latest version can be retrieved from the KEMPER SYSTEM Login section. When using our products, a detailed, object-related and qualified inspection is required in each individual case in order to determine whether the product and /or application technology in question meets the specific requirements and purposes. We are liable only for our products being free from faults, and this only if our relevant product has been used and applied according to the instructions in our technical data sheets. Correct application of our products therefore falls entirely within the scope of liability and responsibility of the user (contractor). Our products are sold exclusively on the bases of our conditions of sale and delivery.

Issued: Vellmar, 2023-03-30