

## KEMPERDUR HB High Build



### Uses

- For new buildings and repair work
- On KEMPEROL 1K-PUR Waterproofing
- On KEMPEROL 2K-PUR Waterproofing
- 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/m<sup>2</sup> for a layer thickness of approx. 3 mm.

Vertical surfaces: KEMPERDUR HB High Build use without the quartz sand mixture or KEMPERDUR Deko 2K. Observe the Technical data sheets from 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	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/mm<sup>2</sup> and the smallest individual value > 0.8 N/mm<sup>2</sup> 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.

#### 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 Waterproofing 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 Waterproofing 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**

Observe 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.

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**

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 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](http://kemperol.de) under Media > Downloads. When applying and using our products, a detailed, ob-

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