

# BD1K

## 1K Thick bitumen coating

**quick-mix**  
A trademark of **sievert**



### Solvent-free, polystyrene-filled thick bitumen coating

Exterior plaster acc. EN 15814

- ÖKOTAN-system product
- single-component
- easy to apply
- fully dry: at least 3 days



## APPLICATIONS

- for sealing and protecting structures in contact with the ground according to DIN 18533
- for waterproofing building elements in contact with the soil from ground moisture and non-pressing water (W1-E), against moderate exposure to pressing water (W2.1-E), against non-pressing water on earth-covered ceilings (W3-E), against splash water on the wall base (W4-E)
- on wall areas and base slabs in contact with the soil, in the wall base joint area as well as on earth-covered ceiling panels
- as a thick coating on unplastered masonry of all kinds as well as concrete, mixed masonry, plasters of mortar category GP CS III or CS IV according to DIN EN 998-1 and old bitumen waterproofing
- Waterproofing with plastic-modified thick bitumen coatings against pressing water with a high action (W2.2-E) does not meet DIN 18533 and must be contractually agreed with the client before starting the waterproofing.
- for external and interior use

## PROPERTIES

- solvent-free
- ready for use
- single-component
- good workability
- highly flexible
- high stability
- polystyrene-filled
- frost and de-icing salt-resistant

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### SUBSTRATE

<b>Suitable substrates</b>	<ul style="list-style-type: none"><li>■ all types of unplastered masonry</li><li>■ Concrete</li><li>■ Mixed masonry</li><li>■ Plasters in category CS III or CS IV according to DIN EN 998-1</li><li>■ old bitumen waterproofing</li></ul>
<b>Properties/tests</b>	<ul style="list-style-type: none"><li>■ The substrate must be frost-free, dry on the surface, sustainable, clean, and free from contamination and separating layers of all kinds (e.g. paint coatings, formwork oils).</li><li>■ Plasters must be hardened.</li></ul>
<b>Pretreatment</b>	<ul style="list-style-type: none"><li>■ Critical areas such as grooves, foundation slabs and wall/floor joints are to be protection against moisture acting on the back with MDS or MDF quick-fix mineral sealing slurry.</li><li>■ Remove loose particles, dust and adhesion-depleting contaminants.</li><li>■ Edges are to be broken and coving is to be carried out with a suitable mortar, e.g. quick-mix SAN-S Sperrputz or akurit UNI-SD Universal Sockel-Dicht, in a radius of 40 to 60 mm.</li><li>■ In the case of unplastered masonry, close joints &gt; 5 mm in advance with a suitable mortar. Open joints &lt; 5 mm and surface profiling must also be closed; this can be done either by plastering or application of a scratch filler with thick bitumen coating. On concrete surfaces, bubbles may occur in the sealing layer, particularly in case of intense sunshine. These bubbles can largely be prevented from forming by applying a scratch filler beforehand.</li><li>■ All mineral substrates are to be pre-treated with ÖKOTAN primer.</li></ul>

### COMPOSITION

- Material basis: Bitumen rubber

### PROCESSING

<b>Temperature</b>	<ul style="list-style-type: none"><li>■ Do not process and allow to dry out at air, material and substrate temperatures below +5 °C and with expected night frost as well as above +35 °C, direct sunlight and/or strong wind.</li></ul>
<b>Mixing / Preparation / Processing</b>	<ul style="list-style-type: none"><li>■ Can be sprayed with suitable pumps. In case of doubt, please consult our technical advice team.</li></ul>

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### PROCESSING

#### Applying

- Always apply product on the side facing the water.
- Apply thick coating evenly over the whole area with trowel, spatula or finisher in at least two work stages.
- Water action class **W1-E** (ground moisture and non-pressing water):  
The second sealing layer can be applied wet-in-wet.
- Water action class **W2.1-E** (moderate exposure to pressing water):  
The second sealing layer is applied only once the first sealing layer has dried out sufficiently, so that the first sealing layer is not damaged by the following application. For waterproofing against pressing water, GF reinforcement mesh, fine must be inserted as a defined reinforcement layer after the first work stage.
- Water action class **W3-E** (non-pressing water on earth-covered ceilings):  
The thick coating is to be applied in two work stages. It must result in a cohesive layer that bonds on the substrate. Before applying the 2<sup>nd</sup> sealing layer, the first sealing layer must be dried out sufficiently so that it is not damaged by the 2<sup>nd</sup> application. After the 1<sup>st</sup> work stage, GF reinforcement mesh, fine is to be inserted as a reinforcement layer.
- Water action class **W4-E** (splash water and soil moisture on the wall base):  
The second sealing layer can be applied wet-in-wet.
- The specified wet layer thicknesses must not be exceeded anywhere by more than 100 % and the minimum dry layer thicknesses must be maintained in all places.
- **Minimum layer thicknesses according to DIN 18533:**  
W1-E: Wet layer thickness approx. 3.6 mm / dry layer thickness 3.0 mm  
W2.1: Wet layer thickness 4.8 mm / Dry layer thickness 4.0 mm incl. reinforcement layer  
W3-E: Wet layer thickness 4.8 mm / Dry layer thickness 4.0 mm incl. reinforcement layer  
W4-E: Wet layer thickness approx. 3.6 mm / dry layer thickness 3.0 mm

#### Drying / Hardening

- The drying time of the completed waterproofing depends on the humidity, temperature and amount applied.
- The drying out time is at least 3 days. Only after that can the filling be carried out.
- The thick bitumen coating is to be protected from drying out too quickly and unfavourable weather conditions (frost, rain, etc.).

#### Cleaning the tools

- Clean all tools and equipment with water immediately after use.
- When hardened, removal is only possible by mechanical means or using solvents.

#### Notes

- During the construction phase, no water must get between the substrate and waterproofing.
- The waterproofing is to be protected against damage (protective/wear layers according to DIN 4095 and DIN 18533).
- Only use loam-free filling material to fill the excavation pit, as the recompaction and swelling of cohesive soils can create the risk of unpermitted shear forces. Do not use debris and building rubble to backfill the excavation pit. Point loading of the seal must be avoided.
- Prevent punctiform loading of the waterproofing, as can be caused e.g. by corrugated or dimpled panels.
- Use quick-mix ÖKOTAN BKP bitumen adhesive to bond drainage and protection boards.

### PACKAGING

- 30 l/bucket

### STORAGE

- Store in the original, unopened packaging in dry, frost-free conditions.

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### QUANTITY REQUIRED / YIELD

- Consumption: approx. 1.2 l/m<sup>2</sup> per mm dry film thickness
  - Consumption:
    - approx. 1 - 2 l/m<sup>2</sup> as scratch coat
    - approx. 3.6 l/m<sup>2</sup> in case of ground moisture and non-pressing water according to DIN 18533 W1-E
    - approx. 4.8 l/m<sup>2</sup> in case of moderate impact of pressing water according to DIN 18533 W2.1-E
    - approx. 4.8 l/m<sup>2</sup> with non-pressing water on earth-filled ceilings in accordance with DIN 18533 W3-E
    - approx. 3.6 l/m<sup>2</sup> with splash water and soil moisture at the wall base in accordance with DIN 18533 W4-E
- Conditional on textured substrate or uneven material application, additional consumption may occur.

### TECHNICAL DATA

<b>Crack bridging class</b>	RÜ3-E according to DIN 18533
<b>Rain resistance</b>	after approx. 2 hours
<b>Drying time</b>	at least 3 days
<b>Temperature resistance, permanent</b>	-20°C to +100°C

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

### SAFETY AND DISPOSAL INSTRUCTIONS

- Completely empty and recycle the packaging.
- Dispose of the material in accordance with the official regulations.

### GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.