

# DOBAU®-1KS



Single-component, plastic-modified thick bitumen coating (PMBC)



## Use

The single-component, plastic-modified thick bitumen coating filled with polystyrene foam (PMBC) is used for sealing components in contact with the ground in accordance with DIN 18533. DOBAU®- 1KS corresponds to the requirements of DIN EN 15814 PMBC - W1, CB2, C1, R3 in respect to plastic-modified thick bitumen coatings for sealing building structures.

A „General test certificate issued by the building authorities“ is available for use in transition to structural components made of concrete with high water penetration resistance in accordance with Building Rules List A Part 2 No. 2.48 (abP in accordance with PG ÜBB).

## Properties

DOBAU®- 1KS is distinguished by the following characteristics:

- ready for use
- thixotropic, meaning up to 7 l/m<sup>2</sup> can be applied in one operation
- elastic and bridges cracks
- high heat resistance
- highly flexible and elastic, even at cold temperatures
- high resistance to aging
- can also be used effectively on slightly damp substrate
- solvent-free and environmentally friendly

## Application instructions

### Requirements to the subsoil

Building areas onto which DOBAU®- 1KS is to be applied must be firm, smooth, free of nests, gaping cracks and burrs as well as free of impurities. Unclosed recesses that are larger than 5 mm, such as mortar pockets, open butt and horizontal joints or outbreaks, must be closed with suitable mortar.

Masonry surfaces according to DIN 1053-1, open butt joints to 5 mm and surface profiles or uneven areas of stones must be closed or equalised either by plastering (thin or levelling plaster), sealing slurry or by scratch filling with DOBAU®- 1KS. If the effects of water from the negative side, i.e. from the building structure, are to be expected during the construction phase, the substrate must be treated with a mineral sealing slurry (MDS).

### Weather conditions

At the application of DOBAU®- 1KS the ground and air temperatures have to be more than 5 °C. The effects of water, rain and frost must be avoided during the processing and drying phase.

## Central Sales

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## Establishing the seal

For better bonding with the substrate, it is necessary to use the primer DOBAU®- Voranstrich E (solvent-free). For processing, the bitumen emulsion is first stirred briefly in the container using a slow running electric agitator, in conjunction with an anchor stirrer. The material should be applied like plaster onto the treated substrate. DOBAU®- 1KS is applied in minimum two layers with or without reinforcement inlay, e.g. with a trowel, spatula, smoother or similar. The first sealing layer must have dried through so that it is not damaged by the work that follows. Inner corners and wall/floor connections must be formed as hollow or sealing fillets. The hollow fillets can be realised with DOBAU®- 1KS (maximum radius 20 mm). If hollow fillets are made with other material (e.g. mortar), make sure that the material does not exhibit any capillary water conductivity.

In the area of floor/wall connections with protruding floor slab, DOBAU®- 1KS must be routed down from the wall area via the floor slab to about 100 mm on the face of the floor slab. DOBAU®- 1KS must be spread out to zero when interrupting work. When resuming the work, continue by overlapping. Work interruptions must not be made on building corners, fillets or edges.

## Detail formation

The relevant regulations of DIN 18533 Part 3 must be observed for the necessary detail formations, connections to a cross sectional seal, transition to a WU concrete structure, wall base, penetrations as well as expansion joints, in relation to the water penetration class.

## Protective layers

Building structures must be provided with an additional protective layer in accordance with DIN 18533. The protective layer may only be applied after the seal as sufficiently dried. The protective layers can be bonded point-by-point with a PMBC (approx. 1-2 l/m<sup>2</sup>). Materials that could damage the PMBC must not be used for sealing in the area in contact with the ground. Expanded or extruded polystyrene hard foam boards, dimpled membranes with sliding layer or foam glass boards are suitable for instance.

## Material consumption/ load cases

The data represent practical wet layer thicknesses that may differ slightly depending on the substrate.

Type of sealing	Water penetration class	Establishing the seal	Minimum dry layer thickness (d <sub>min</sub> )	Wet layer thickness (d <sub>min</sub> + layer thickness acceptance)
Ground moisture and non-pressing water for slab and walls in contact with the ground	W1.1-E	2-layer	3 mm	approx. 4.0 mm
	W1.2-E	2-layer	3 mm	approx. 4.0 mm
Splash water on wall base as well as capillary water in and below walls in contact with the ground	W4-E	2-layer	3 mm	approx. 4.0 mm

According to the specifications of DIN 18533, a layer thickness allowance (dz) of minimum 25 % of the minimum dry layer thickness is to be worked with, i.e. the wet layer thickness from the table is to be increased by this allowance. This allowance is meant to ensure that the minimum dry layer thickness is complied with in all cases, despite fluctuations and unevenness in the substrate due to processing.

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### Processing checks

According to the specifications of DIN 18533-3, the wet thickness layer must be inspected regularly during application when working with DOBAU®- 1KS. The distribution of the measuring points should be diagonal (at least 20 measurements per object work on or at least 20 measurements per 100 m<sup>2</sup>). The wet layer thickness must be inspected separately for each layer.

The resultant dry layer thicknesses can only be tested destructively. The layer thickness inspection should be carried out on a reference area, which is comparable to the construction project in terms of substrate properties and weathering conditions (e.g. wall brick or excavation pit).

### Storage

The PMBC can be stored for at least 12 months in the unopened container. The containers must be kept away from frost. Avoid direct sunlight or strong heat.

### Form of supply

12 l - and 30 l - containers

### Cleaning agent

When fresh:

Water

When set:

DOBAU®- SWS Bitumenreiniger, common solvents or benzine;  
at ski contact hand washing paste

### Authoritative regulations

When establishing the seals on components in contact with the ground with DOBAU®- 1KS, the following regulations must be strictly observed:

- DIN 18533, Part 1 und Part 3

### Safety information

Please observe the safety data sheet, this contains important information on the handling, transport and storage of DOBAU®- 1KS.

This product information corresponds to our latest available information. The processor is obliged to test the suitability and application options for the intended purpose. We shall be pleased to advise if you have any questions about our product. Our Terms and Conditions of Business apply, which can be found at [www.dga.de](http://www.dga.de).

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