BD2KW

2K Winter thick bitumen coating

quick-mix
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Solvent-free special winter thick bitumen coating

- 2-component
- fibre-reinforced
- fully dry: at least 2-7 days

APPLICATIONS

- for sealing and protection of structures in contact with the earth in accordance with DIN 18533 at temperatures of -5°C up to +20°C
- 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
- as an adhesive for insulation, protection and drainage panels
- 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

- highly flexible
- high stability
- frost and de-icing salt-resistant

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SUBSTRATE

Suitable substrates	■ all types of unplastered masonry ■ Concrete ■ Mixed masonry ■ Plasters in category CS III or CS IV according to DIN EN 998-1 ■ old bitumen waterproofing
Properties/tests	■ 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). ■ Plasters must be hardened.
Pretreatment	■ Remove loose particles, dust and adhesion-depleting contaminants. ■ 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. ■ 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. ■ In the case of unplastered masonry, close joints > 5 mm in advance with a suitable mortar. Open joints < 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. ■ Scratch filling with thick bitumen coating must be carried out at least 24 hours before the start of the coating work. ■ All mineral substrates must be pre-treated at temperatures above +5 °C with ÖKOTAN primer, and at air and substrate temperatures from -5 °C to +5 °C with ÖKOTAN BSG special bitumen primer. ■ In the case of concrete surfaces, especially when exposed to intense sunlight, bubbles can appear in the waterproofing layer. This blistering can largely be prevented by applying a scratch coat. The edge of the concrete base must be chamfered

COMPOSITION

■ Material basis: Bitumen rubber

PROCESSING

Temperature	■ Processable at air, material and substrate temperatures from –5 °C to +20 °C.
Mixing / Preparation / Processing	■ Can be sprayed with suitable pumps. In case of doubt, please consult our technical advice team. ■ Stir 2C thick bitumen coating with slow-running drill and quick-mix stirring paddle. When doing so, sprinkle the powder component into the liquid component and stir until a homogeneous, paste-like and lump-free mass develops. ■ The mixing time is approx. 1 minute. ■ For partial quantities, these are to stirred in a mixing ratio of 1 part powder component to 3 parts liquid component.

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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** (soil moisture and non-pressing water): The second sealing layer can be applied wet-in-wet. The wet layer thickness is approx. 3.7 mm. The dry layer thickness must be at least 3 mm according to DIN 18533. ■ 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. In the case of seals against pressing water, a defined reinforcement insert, e.g. akurit fine GF reinforcement mesh, must be inserted after the first work step. The wet layer thickness is approx. 5.0 mm. The dry layer thickness must be at least 4 mm according to DIN 18533. ■ 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 2nd sealing layer, the first sealing layer must be dried out sufficiently so that it is not damaged by the 2nd application. After the 1st 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 wet layer thickness is approx. 3.7 mm. The dry layer thickness must be at least 3 mm according to DIN 18533.
Processing / Working time	■ After the mixing process, the product is workable at +10 °C for about 1 hour.
Drying / Hardening	■ The drying out time is at least 2 days: only after that can the filling be carried out.
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	■ Do not process in direct sunlight. ■ Running behind the fresh waterproofing leads to damage such as washout or blistering and must therefore be prevented by taking suitable measures.

PACKAGING

■ 32 kg/bucket

STORAGE

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

QUANTITY REQUIRED / YIELD

■ consumption: approx. 1.35 kg/m² per mm dry layer thickness

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TECHNICAL DATA

Crack bridging class	RÜ3-E according to DIN 18533
Rain resistance	after approx. 3 hours
Drying time	at least 3 days
Temperature resistance, permanent	-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

Safety	■ Follow further instructions in the safety data sheet.
Disposal	■ 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. The technical data refer to + 20 ° C and 60% relative humidity 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.

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