BLD2K

LD2 Thick bitumen coating

Solvent-free, polystyrene-filled thick bitumen coating

- 2-component
- fibre-reinforced
- very easy to apply
- fully dry: at least 2 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
- 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

- ÖKOTAN-System produkt solvent-free
- tested according to EN 15814
- 2-component
- rapid hardening
- soon rainproof
- highly flexible
- fibre-reinforced
- frost and de-icing salt-resistant

COMPOSITION

- Material basis: Bitumen rubber
- cement-based powder component

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SUBSTRATE

General	■ 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. ■ At all inner corners and wall/floor connections, grooves must be manufactured in a radius of max. 2 cm with quick-mix BLD2K LD2 thick bitumen coating or with a suitable mortar, e.g. quick-mix SAN-S waterproof plaster, 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 as well as surface profilings are also to be sealed, this can be done either by plastering or by applying a scratch filler with quick-mix LD2 bitumen thick 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. ■ All mineral substrates are to be pre-treated with ÖKOTAN primer.

PROCESSING

Temperature	■ Can be used at air, material and substrate temperatures of +5 ° C to +35 ° 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 4 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. 3.3 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 waterproofing against pressing water, a defined reinforcement insert, e.g. quick-mix GWS reinforcement mesh, must always be inserted after the first work step. The wet layer thickness is approx. 4.4 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 BLD2K must be applied in two work steps. 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. The reinforcement insert must be inserted after the 1st work step. ■ 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. 3.3 mm. The dry layer thickness must be at least 3 mm according to DIN 18533. ■ 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.
Processing / Working time	■ After the mixing process, the thick coating can be worked for about 1 hour.
Drying / Hardening	■ Protect from drying out too quickly and unfavorable weather conditions (frost, rain, etc.) ■ 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.
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.

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. 1.1 l/m² per mm dry film thickness
- consumption:
  approx. 1 – 2 l/m² as scratch filler
  approx. 3.3 l/m² on earth moisture and non-pressing water according to DIN 18533 W1-E
  approx. 4.4 l/m² with moderate pressing water according to DIN 18533 W2.1-E
  approx. 4.4 l/m² with non-pressing water on earth-covered ceilings according to DIN 18533 W3-E
  approx. 3.3 l/m² with spray water and earth moisture at wall base according to DIN 18533 W4-E
- Due to the structured subsurface or uneven application of material, there may be additional consumption.

TECHNICAL DATA

Crack bridging class	RÜ3-E according to DIN 18533
Rain resistance	after approx. 2 hours
Drying time	at least 2 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

- 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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