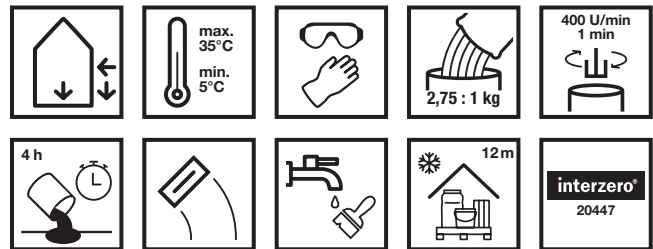


ÖKOPLAST 2K 20B

Thick bitumen coating for building waterproofing, fibre-enhanced



These pictograms apply to the **basic product**.
Deviations are possible depending on the area of application and processing.

PRODUCT INFORMATION

Description

ÖKOPLAST® 2K 20B is a polymer-modified, fiber-reinforced thick-layer waterproofing based on bitumen emulsion with hydraulically setting powder. It is resistant to the aggressive substances normally found in soil and does not pollute groundwater. Resistant to frost and de-icing salt when hardened.

Application

- for sealing and protecting structures in contact with the ground according to DIN 18533
- against ground moisture and non-pressing water W1-E
- against water pressing from outside, moderate impact W2-E
- against non-pressurized water on ground-covered ceilings W3-E
- against splash water at the wall base, as well as capillary water in and under walls in contact with the ground W4-E
- for sealing wall connections on waterproof concrete, as well as construction and butt joints of concrete components with high water penetration resistance
- on unrendered masonry, concrete, plaster, MG P II, and P III, as well as on cleaned old bitumen sealants
- as an adhesive for insulation, protection and drainage panels

Operational area

- Basements of residential and commercial buildings
- Floor slabs
- Underground garages
- Balconies, terraces
- Wet rooms, shower facilities
- Retaining walls

Properties

- tested according to DIN EN 18533
- easy to process
- good post-smoothing behavior
- fast hardening
- fiber-reinforced

Technical Data

Available container sizes	30 kg/combination container
Colour	black
Mixing ratio	2,75 : 1
Density of component A	1.05 kg/l
Density of component B	1.5 kg/l
Density, ready to use	approx. 1.15 kg/l
Material shrinkage	approx. 20 %
Processing temperature	+5°C up to +35°C
Processing time	approx. 4 hours ¹⁾
Resilience	fully cured and loadable after approx. 2 - 3 days ¹⁾
Water resistance	Class W2A
Crack bridging capacity	Class CB2
Rain resistance	≤ 4 h / Wet layer thickness ≥ 3 mm (MLV)
Flexibility at low temperatures	No cracks
Dimensional stability at high temperatures	No slipping or running off
Fire behaviour	E
Storage	12 months, frost-free and cool, originally sealed
Consumption	W1-E: approx. 4,6 kg/m ² W2.1-E: approx. 6,0 kg/m ² W3-E: approx. 6,0 kg/m ² W4-E: approx. 4,6 kg/m ² Scratch coat: 1 – 2 kg/m ²

¹⁾ At +20 °C and 60 % relative humidity

SUBSTRATE

Properties/tests

- The substrate must be solid, load-bearing and free of dust, dirt and mortar residue.
- The substrate may be matt damp.

Preparation

- The substrate must be prepared in accordance with DIN 18533 Part 3.
- Thoroughly clean the sole protrusions. Completely remove sintered layers and soiling.
- Outside edges are to be broken, all inside corners are to be created as coving with INTRASIT SM 54Z or the quick-setting sealing mortar INTRASIT RZ1 55HSP.
- Use IMBERAL Aquarol 10D as a primer on all absorbent, mineral substrates.
- If there is a risk of moisture penetration from the rear, apply intermediate waterproofing with INTRASIT DS1 54Z, INTRASIT Poly-C1 54Z or IMBERAL RSB 55Z.
- Old, firmly adhering bitumen waterproofing can be reworked after cleaning without further priming.
- Fill open joints, pores and cavities up to 5 mm with bitumen thick coating as a scratch coat. Seal joints wider than 5 mm, mortar pockets and cavities with INTRASIT SM 54Z or INTRASIT RZ1 55HSP.
- Scratch coats and coverings must be hardened before starting the waterproofing work.



AREAS OF APPLICATION AND PROCESSING

■ Applying

- First stir the bitumen component thoroughly before application using a powerful, slow-running dysentery mixer with stirring paddle. The powder component is then slowly sprinkled in at the specified mixing ratio while stirring continuously. Both components must then be mixed until a homogeneous, lump-free mass is formed.
- Apply with a smoothing trowel, trowel or a suitable spraying technique in the required layer thickness.
- Apply at least 2 coats. The second coat can be applied as soon as the first coat has dried to such an extent that it can no longer be damaged. In accordance with DIN 18533-3, a reinforcing insert is required for various water exposure classes. In areas at risk of cracking, such as irregular masonry, open butt joints, in coving areas and in masonry made of large-format bricks, as well as in areas subject to high loads, the VE 89V reinforcing insert must also be embedded.
- **Base and splash water area:** We recommend sealing these areas with IMBERAL RSB 55Z for subsequent plastering or in the area of the clinker contact surface.
- **Movement joints:** Movement and structural separation joints must be looped using IMBERAL FAB 89ZH joint tape and integrated into the surface waterproofing.
- **Minimum layer thicknesses according to DIN 18533:**
 W1-E: Wet layer thickness approx. 4.2 mm / Dry layer thickness ≥ 3 mm / Consumption: 4,6 kg/m²
 W2.1-E: Wet layer thickness approx. 5.5 mm / Dry layer thickness ≥ 4 mm / Consumption: 6,0 kg/m²
 W3-E: Wet layer thickness approx. 5.5 mm / Dry layer thickness ≥ 4 mm / Consumption: 6,0 kg/m²
 W4-E: Wet layer thickness approx. 4.2 mm / Dry layer thickness ≥ 3 mm / Consumption: 4,6 kg/m²
 The stated consumption values are minimum values. Separate professional levelling of the substrate, e.g. by scratch filling, is assumed. According to DIN 18533 Part 3, a layer thickness allowance of at least 25 % of the minimum dry layer thickness must be added.

■ Drying / Follow-up work

- The waterproofing must be completely dry to ensure the final effect and strength.

NOTES

■ Cleaning

- Clean all tools and equipment with water immediately after use.
- Hardened material can only be removed mechanically.

■ System products

- IMBERAL® Aquarol 10D
- INTRASIT® DS1 54Z
- INTRASIT® Poly-C1 54Z
- INTRASIT® SM 54Z
- INTRASIT® RZ1 55HSP
- IMBERAL® FAB 89ZH
- IMBERAL® VE 89V
- IMBERAL® Multidrain 89V
- IMBERAL® RSB 55Z



To be observed

- Water from the cellar floor or water collected from the floor slabs and rainwater downpipes that are not yet connected must be prevented from running behind the waterproofing layer. No cohesive soils (containing clay) may come into contact with the waterproofing.
- Maintain a processing temperature of +5 °C to +35 °C.
- When applying the product, observe DIN 18533 – Waterproofing of buildings, DIN 1053 – Masonry construction and the guidelines for the design and planning of components in contact with the ground with polymer-modified bituminous thick coatings.
- Prevent or reduce blistering due to deep pores or cavities in concrete by scratch filling.
- Do not process in direct sunlight.
- If possible, arrange penetrations of the waterproofing in the area of ground moisture and non-accumulating seepage water. The thick bitumen coating can be applied to the penetration in the form of a cove.
- Use adhesive flanges or loose/fixed flanges for penetrations in the area of non-pressing water, in the case of accumulating seepage water or pressing water, loose and fixed flange screw connections must generally be used.
- Reinforce floor inlets with plate edge or clamping foils with a fabric strip in case of integration.
- Protective layers and protective measures in accordance with DIN 18533.
- Deviations from DIN 18533 must always be contractually agreed.
- When laying perimeter insulation boards, see also the information sheet for thermal insulation of components in contact with the ground from the Fachvereinigung Polystyrol-Extruderschäumstoff (FPX).

Ingredients

- Liquid component / component A: bitumen emulsion
- Powder component / component B: contains Portland cement

Occupational safety / Recommendation

- The powder component contains cement and reacts strongly alkaline with moisture / water. Therefore protect eyes and skin. In case of contact, always rinse with water. In the event of contact with the eyes, consult a doctor immediately. Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

Disposal

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

Producer

Sievert Baustoffe SE & Co. KG
Mühlenschweg 6, 49090 Osnabrück
Tel. +49 2363 5663-0, Fax +49 2363 5663-90
hahne-bautenschutz.de, info-hahne@sievert.de

The statements are made based on extensive tests and practical experiences. They cannot be applied to every application case. Therefore, we recommend carrying out application trials if necessary. Subject to technical changes in the course of further development. Furthermore, our General Terms and Conditions of Business apply.