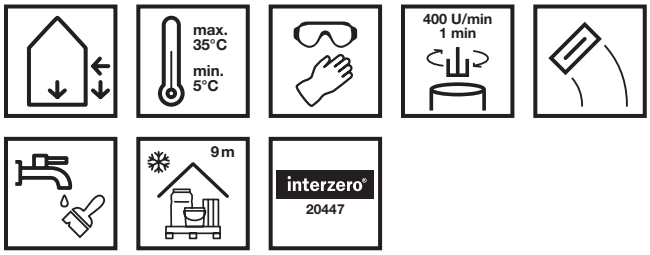
ÖKOPLAST 1K 20B

Thick bitumen coating for building waterproofing, polystyrene-filled



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

PRODUCT INFORMATION

Description

ÖKOPLAST® 1K 20B is a polystyrene-filled thick-layer bitumen-based waterproofing. It is resistant to the aggressive substances normally found in soil and does not pollute groundwater. When hardened, it is resistant to frost and de-icing salt.

Application

- for waterproofing components in contact with the ground in accordance with DIN 18533 on walls, plinths and floor slabs in contact with the ground, as well as ceiling slabs covered with earth
- for sealing wall connections on waterproof concrete, as well as construction and butt joints of concrete components with high water penetration resistance
- 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
- 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
- as an adhesive for insulation, protection and drainage boards

Properties

- tested according to DIN EN 18533
- practically odorless
- flexible
- good stability
- polystyrene-filled
- easy to process

Technical Data

Available container sizes	30 l/PE bucket
Density	ca. 0,65 kg/l
Processing temperature	+5°C up to +35°C
Softening point	> +100 °C
Elongation at break	approx. 120 %
Tensile strength	approx. 0.25 N/mm²
Slot pressure test	> 0.75 bar
Crack bridging capacity	> 2 mm (at +4 °C, without fabric insert)
Resilience	fully cured and loadable after 2 days [1)]
Storage	frost-free and cool, 9 months
Consumption	Consumption: W1-E: 3,6 l/m² W2-E: 4,8 l/m² W3-E: 4,8 l/m² W4-E: 3,6 l/m² Scratch coat: approx. 1 – 2 l/m²

[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

- 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.

AREAS OF APPLICATION AND PROCESSING

Applying

- The product is ready to use.
- If the reaction accelerator ÖKOPLAST Plus 55Z is to be used, it is added to the bitumen mass as follows: Stir the liquid component briefly using a slow-speed stirring tool (400 to 600 rpm) with a stirring paddle and stir the entire powder component intensively into the liquid component. The mixing process takes approx. 1 minute until the mixture is homogeneous and lump-free.
- PMBC is applied as surface waterproofing in at least two layers. In the case of ground moisture and non-pressing water as well as in the plinth area, the waterproofing layers can be applied fresh in fresh. Against water pressing from the outside, moderate impact and non-pressing water on earth-covered ceilings, the reinforcement insert IMBERAL VE 89V is worked into the first layer. The second waterproofing layer is applied when the first waterproofing layer is no longer damaged.
- **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.

NOTES

Cleaning

- Clean all tools and equipment with water immediately after use.

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-Extruderschaumstoff (FPX).

Ingredients

- bitumen
- polymers
- emulsifiers
- functional fillers

Occupational safety / Recommendation

- Further information on safety during transportation, storage and handling can be found in the current safety data sheets.

Disposal

- The following applies to all systems: Only return empty containers to recycling partner Interseroh. Hardened material residues can be disposed of according to EWC code no. 17 03 02 (bitumen mixtures with the exception of those falling under 17 03 01).

Producer

Sievert Baustoffe SE & Co. KG
Mühleneschweg 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.