

Technical sheet

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BT-HIDROFLEX DE 111 1K

One-component flexible waterproofing



Field of application

It is used to protect interior and exterior surfaces that are in direct contact with moisture and water (bathrooms, balconies, basements). It is not used as a final coating.

Characteristics

- Waterproof
- Simple installation
- Good adhesion
- Good workability

Composition

Cement, quartz filler, fibers and additives.

Technical data

Type of packaging	Paper bags
Quantity in one package	20 kg/unit
Aggregate condition	Tight
Color	Gray
Bulk density (BAS EN 1015-10:2004)	cca. 1000 kg/m ³
Volumetric mass in the compacted state (BAS EN 1015-10:2004)	cca. 1400 kg/m ³

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Adhesion to the concrete substrate (BAS EN 1015-12:2018)	≥ 1 MPa
Capillary water absorption (BAS EN 1015-18:2004)	0,0053 kg/m ² · min ^{0,5}
Waterproof (7 days 150 kPa)	YES (no penetration) BAS EN 14891:2018
Required amount of water:	30%
Drying time:	cca. 4h (1 layer)
Consumption:	2.0-2.5 kg/m ² in two coats, thickness 2 mm
Note on consumption	The consumption values are indicative and very much depend on the type and previous preparation of the substrate as well as the installation technique.

Processing conditions

During processing and drying, the ambient temperature, i.e. the substrate must not be below +5 °C and above +30 °C.

Preparation of the substrate*Cleaning:*

The substrate must be dry, solid, clean, absorbent, flat, free of dust, grease stains and other impurities that can prevent adhesion.

Dust and other unbound, loose parts must be removed, vacuumed or removed with a brush. If there are remnants of old material on the wall, they must be completely removed.

Impregnation:

Before applying BT-Hidroflex DE 111 1K, we recommend impregnating the substrate with BT-Hidroprime DE 01 (diluted according to the instructions) in one or two layers, depending on the absorbency of the substrate. The waterproofing can be installed after 4 hours from the application of the impregnation, under optimal weather conditions.

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Preparation and installation of materials

The mass is prepared by slowly adding the contents of the bag to about 6 liters of water while constantly stirring with an electric mixer. The mass should be left to stand for 5 minutes, then mixed again and applied to the prepared surface. Use the prepared mixture within 60 minutes.

BT-Hidroflex DE 111 1K should be applied in 2 layers. It is convenient to use a brush as a tool. The first layer must be applied so that the thickness of the layer does not exceed 1 mm. It is mandatory to dry for 3-4 hours, depending on the temperature in the room, and then apply the second layer. The second layer is applied crosswise over the first layer in order to achieve better results. It is necessary to use BAUTREND waterproofing tapes on all corners and expansion joints.

High humidity and low temperatures slow down, while high temperatures accelerate the process of bonding and hardening of the material.

No other means may be added to the product content!

After completing the application of the entire system, it is mandatory to dry for 24 hours before gluing other materials to the applied surface.

Cleaning tools

Immediately after finishing the work, hand tools should be washed with clean water. If the material hardens, it must be mechanically removed and disposed of according to regulations.

Handling of waste

Prevent uncontrolled discharge of material into drains and watercourses. Do not mix hardened residues with municipal waste, but dispose of them as construction waste in accordance with applicable local/regional legal provisions.

Protection at work

Follow general instructions and regulations on occupational safety during construction work.

When performing work, wear adequate work clothes that ensure that the material does not come into contact with the skin.

Hand protection: protective impermeable gloves.

Eye protection: safety glasses with side protection.

For more information, see the product safety data sheet.

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Storage and transport conditions

Store in dry and well-ventilated areas. Keep bags tightly closed in a horizontal position, on pallets, protected from moisture. Do not expose to high temperatures (>25°C) or low temperatures (<0°C). Keep out of reach of children and away from food and drinks.

During transport, the product must be secured so that it does not move on the pallet and is not exposed to direct sunlight and moisture.

Expiry date

Originally sealed and stored as recommended, the product has a shelf life of at least 12 months.

Quality control

Testing and monitoring of product quality is carried out in the internal BT laboratory and periodically in authorized institutes and laboratories.

General notes

The technical instructions are based on our previous experience, with the aim of achieving optimal results when using the product. The information provided does not in itself create any legal obligation, nor any additional obligations, and does not relieve the buyer of the responsibility to perform a prior test of the suitability of the material for a specific purpose.

If the contractor notices or suspects any functional or aesthetic defect in the product during the installation of the purchased material, he is obliged to stop further installation of the product in order to minimize any potential damage. He is also obliged to immediately file a complaint with the manufacturer, who will process the complaint as soon as possible.

Damage caused by incorrect product selection, improper use (failure to follow the instructions specified in this technical sheet) or unprofessional work cannot be the subject of a complaint.

This data sheet supersedes all previous editions. We reserve the right to any subsequent changes and additions.