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BAUTREND

Technical sheet

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BT-STIROPFIX WDVS

General purpose polymer cement mortar

Field of application
It is intended for gluing styrofoam panels on brick, mortar and concrete substrates, smoothing, and embedding mesh.

Characteristics
- Good adhesion - Good workability - Increased strength

Composition
Cement, polymer binder, fillers and additives.

Technical data

Type of packaging	Paper bags
Quantity in one package	25 kg/unit
Unit per pallet	48 units/pallet
Aggregate condition	Tight
Color	Gray
Granulometric analysis (BAS EN 1015-1:2004)	0-0,71 mm
Consumption	4-6 kg/m2 for gluing Styrofoam 4kg/m2 for smoothing and dipping the mesh

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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.
Required amount of water	25 %
Bulk density (BAS EN 1015-10:2018)	approx. 1400 kg/m3
Volumetric mass in the compacted state (BAS EN 1015-10:2018)	approx. 1800 kg/m3
Adhesion to the concrete substrate (BAS EN 1015-12:2018)	≥0,9 MPa
Water retention capacity (BAS EN 1015-8:2002)	99,69 %
Air content (BAS EN 1015-7:2004)	23 %
Thermal conductivity (BAS EN 1745:2021)	0,45 W/mK
Vapor permeability coefficient (μ)	5/20 (table value)
Capillary water absorption (BAS EN 1015-18:2004)	W2 (BAS EN 998-1:2018)
Compressive strength (28 days) (BAS EN 1015-11:2002)	CS IV (BAS EN 998-1:2018)
Flexural strength (28 days) (BAS EN 1015-11:2002)	2,53 N/mm^2

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

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

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Preparation and installation of materials

Shake the bag of material in about 6.25 l of water, and be sure to mix with an electric mixer until complete homogenization. After mixing, leave to ripen for 10 min., then stir briefly once more and, if necessary, add more water to adjust the appropriate consistency of the glue.
Before the start of gluing the boards, an initial aluminum molding is placed, on which a certain amount of glue is applied in order to achieve sealing from the bottom side, and then the first row of boards is placed on it.
The prepared material is applied using the edge-point method. Apply the glue by hand to the styrofoam board on all edges, in strips 5 cm wide, about 1.5 cm thick and at least three points in the middle with a diameter of about 10 cm. In mechanical application of glue using a gun, the glue is applied in a caterpillar pattern around the edge and in the middle in the shape of the letter W or M. It is not allowed to manually or mechanically apply the glue to the wall and lay the insulation board in the bed of glue.
Basically, only whole panels can be installed from bottom to top, leaning on each other so that the joints are completely tied. The second row of plates is placed with an offset of min. 30 cm in relation to the beginning of the panels from the first row, the so-called shear rule (also applies to each subsequent row). At the corners of the building, it is necessary to observe the "toothed joint rule" - cross-gluing of boards with a board overhang at the corners of min. 5 cm over the outer surface of the EPS board on the adjacent side.
After the glue has dried (depending on weather conditions, roughly after 48 hours), the panels need to be anchored with PVC dowels (optimal 6-10 dowels/m2) for additional strengthening.
The next step is to emboss the mesh on the entire facade surface. Apply a ~2mm layer of glue and press the mesh, making sure that it overlaps the edges by at least 10 cm. At the earliest, after 24 hours of drying, apply a ~1mm final layer of glue, which is used for the final smoothing of the facade.
After drying for 5-7 days, finishing with facade materials is recommended: BT-Plastputz acrylic, BT-Plastputz silicate, Baumax acrylic and BT-Edelputz, in which case it is necessary to first impregnate the surface with BT-Grund universal.

Cleaning tools

Immediately after finishing the work, hand tools should be washed with clean water. Remove hardened material mechanically and dispose of it according to regulations.

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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.

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). 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 daily in the internal BT laboratory and periodically in authorized institutes and laboratories.

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General notes

- The technical instructions are based on our previous experience, with the aim of achieving optimal results when using the product.
- The above data in themselves do not create any legal obligation and do 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, in accordance with construction practice, 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.