

Technical sheet

Document No.. TL-012/2025-05	Issue: 2	Date of revision: 09.05.2025.
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BT-STIROPFIX ELASTIK-1

General purpose polymer cement mortar



Field of application

It is intended for gluing styrofoam panels to brick, mortar and concrete substrates, smoothing, and embedding mesh.

Characteristics

- Good workability
- Good grip

Composition

Cement, polymer binder, fillers and additives.

Technical data

Packaging type	Paper bags
Quantity per package	25 kg/unit
Unit per pallet	48 units/pallet
Aggregate state	Hard
Colour	Grey
Grain analysis (BAS EN 1015-1:2004)	0-0,71 mm
Consumption	4-6 kg/m ² for gluing polystyrene 4kg/m ² for smoothing and embedding mesh
Note on consumption	Consumption values are approximate and depend greatly on the type and previous preparation of the substrate as well as the installation technique.

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Required water quantity	25 %
Bulk density (BAS EN 1015-10:2018)	approx. 1400 kg/m ³
Tightened density (BAS EN 1015-10:2018)	approx. 1900 kg/m ³
Adhesion to concrete substrate (BAS EN 1015-12:2018)	≥ 1 MPa
Water retention capacity (BAS EN 1015-8:2002)	99,63 %
Air content (BAS EN 1015-7:2004)	23 %
Thermal conductivity (BAS EN 1745:2021)	0,45 W/mK
Vapour 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)	3,17 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, frost-free, free of dust, grease stains and other impurities that may prevent adhesion. Uneven surfaces must be leveled.

Preparation and installation of materials

Pour the bag of material into about 6.25 l of water, and mix with an electric mixer until completely homogenized. After mixing, leave to mature for 10 min., then mix briefly again and add more water if necessary to adjust the appropriate consistency of the adhesive.

Material that has stood for too long and has begun to harden must under no circumstances be mixed with water again to be used for installation.

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Before starting to glue the panels, an initial aluminum strip is placed on which a certain amount of adhesive is applied to create a seal on the underside, and then the first row of panels is placed on it. The prepared material is applied using the edge-dot method. Apply the adhesive to the polystyrene panel along all edges, in strips 5 cm wide, about 1.5 cm thick and at least three dots in the middle with a diameter of about 10 cm. Basically, only whole panels can be installed from the bottom up, leaning against each other so that the joints are completely bonded. The second row of panels is installed with a shift of at least 30 cm in relation to the beginning of the panels from the first row, the so-called shear rule (also valid for each subsequent row). At the corners of the building, it is necessary to observe the "tooth joint rule" - cross-gluing of the panels with a panel overhang at the corners of at least 5 cm over the outer surface of the EPS panel on the adjacent side.

After the adhesive has dried (depending on weather conditions, approximately after 48 hours), the panels must be anchored with PVC dowels for additional reinforcement (optimally 6-10 dowels/m²). The next step is to press the mesh onto the entire facade surface. Apply a layer of adhesive ~2mm 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 final layer of adhesive ~1mm, which is used to finalize the facade.

After drying for 5-7 days, it is recommended to finish with facade materials: BT-Plastputz acrylate, BT-Plastputz silicate, Baumax acrylate and BT-Edelputz, where it is necessary to impregnate the substrate with BT-Grund universal.

Cleaning tools

Immediately after completion of the work, hand tools should be washed with clean water. Hardened material should be removed mechanically and disposed of in accordance with 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.

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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.

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.