

Zwaluw PU Thermo Adhesive B1

Professional ETA004:2000 certified B1 adhesive foam for external insulation facade systems



Product Description

Zwaluw PU Thermo Adhesive B1 is a moisture-curing one component low-expansion polyurethane adhesive for bonding and installation of façade insulation boards (EWI/EIFS). Zwaluw PU Thermo Adhesive B1 cannot be dissolved after curing. It is waterproof, rot proof, permanently elastic and can be plastered. Zwaluw PU Thermo Adhesive B1 has a very good structure and excellent adhesion from +5°C. Zwaluw PU Thermo Adhesive B1 is part of the product portfolio Sustainable Airtight Building Solutions. These products are tested on thermal insulation, resistance to driving rain and air loss. Correctly applied these products can contribute to energy savings of a building and therefore can come into close proximity with concepts such as passive house and energy neutral houses.

Benefits

- ETA 004:2000 tested, adheres without mechanical fixings
- B1, thus for use above 10 meters
- Efficient bonding of façade insulation panels
- Reduces labour time
- No water and mixing on building site
- No need for electricity
- Reduces storage space on building site
- Environmentally friendlier than traditional cement mortars

Applications

Zwaluw PU Thermo Adhesive B1 can be used for highly efficient bonding and assembly of polystyrene (EPS, EPS-P, XPS etc.) rigid polyurethane foam (PUR/PIR) and mineral fibre panels to concrete, plaster and masonry, as well as for filling joints between the insulation boards.

Directions Of Use

Canister temperature: +5°C to +30°C (recommended +15°C to +25°C) Application temperature (applies to environment and substrates): +5°C to +35°C (recommended +15°C to +25°C) Keep the canister with the valve upwards and fix a applicator gun with NBS-thread onto the canister. We recommend a Zwaluw NBS Gold (see instructions in the gun box). Shake the canister vigorously prior to use at least 20 times. Turn canister upside down and apply the foam. To regulate the flow of the foam, loosen the valve at the back of the handle. Half fill the cavity and, in case of low humidity, lightly spray the foam with water. The foam will expand to fill the rest. When fixing window frames, use spacers and wedges to hold the frame in place for approximately 24 hours until the foam is fully cured. Protect eyes and wear gloves and working clothes. Apply the adhesive on the polystyrene sheet, on the contour, 5 cm away from the edge and inside the contour, in successive strings with 30 cm distance in between. The recommended diameter of the strings applied with a gun is 10–12 mm; Fasten the polystyrene sheets in the final position in about 6–10 min, before the adhesive starts to cure. The polystyrene sheets at the base of the wall must be supported from the lower part, to avoid their slipping off the wall until the adhesive cures and the sheets are fastened (5–24 hours). Fill the spaces between the polystyrene sheets with adhesive, to obtain an effective insulation. For a complete overview see our website or contact our Den Braven.

Additional information

Application temperature		+5°C to +35°C
Base		Polyurethane
Curing time		80-100 minutes
Density		15-20 kg/m ³
Temperature resistance		-40°C to +90°C

These are typical values



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Technical Data Sheet

Zwaluw PU Thermo Adhesive B1

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Limitations

- Not suitable for permanent water load. Not suitable for use (eg filling) in cavities with insufficient moisture
- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates

Surface Preparations and Finishing

Surfaces must be clean, free of oil and grease. Surfaces moistened slightly (spray) using a spray bottle. In cold temperatures, leave the foam to warm to room temperature for at least one hour before use. Screw the can onto a pistol with NBS thread. Shake the can vigorously before use (at least 30 times). Protect eyes, wear gloves and protective gear. Floor-covering and furniture to be covered with paper or plastic foil. Fresh product can be removed directly with Universal PU-Cleaner. After curing surplus foam can be removed with a knife or spatula and the surface can be finished. Bond the insulation panels by lining the plate in a continuous line with PU Thermo Adhesive B1 2-4cm from the edge. Leave no spaces. Apply at least one vertical bonding line in the middle of the plate. Attach within 2 minutes after application of foam, and bring into desired position. Any irregularity can be corrected within max. 20 minutes of bonding, depending on ambient temperature (air and substrate). Precise application is shown on the data sheet.

Paintability

Can be painted or covered with sealant/plaster when fully cured.

Cleaning

Fresh foam can be removed immediately with Zwaluw Universal PU-Cleaner. After curing surplus foam can be removed with a knife or spatula and the foam surface can be finished.

Colour(s)

- Yellow

Packaging

- Aerosol

For product specifications, please refer to the Product Detail Page

Shelf Life

If kept in unopened original packaging between +5°C and +25°C and stored in a dry place, the shelf life is up to 18 months from production date. Store the canisters in an upright position.

Certifications

	ETA 004:2000 Technical Approval of DIBT - Berlin under Certificate number Z.:33.9-1545 Tested by IFBT GmbH - Institut für Fassaden- und Befestigungstechnik under Nr. 13 - 233 FEICA member A+ French VOC Regulation Emicode EC1 Plus
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Health & Safety

Product Safety Data Sheet must be read and understood before use. These are available on request and via the Den Braven websites.

Warranty & Guarantee

Den Braven warrants that its product complies, within its shelf life, to its specification.

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