

EXPERT LINE PIANOFIX

Polyurethane Foam adhesive for roofs

PRODUCT DESCRIPTION

One-component low pressure polyurethane adhesive Expert Line PIANOFIX with gun applicator intended for fixing XPS and EPS insulation boards for the purposes of executing heat insulation of flat roofs.

APPLICATION

- › fastening expanded polystyrene boards (EPS), extruded polystyrene boards (XPS), waterproof polystyrene boards (EPS) and expanded polystyrene membrane when executing heat insulation of flat roofs.
- › fixing Styrofoam ceiling tiles and wall panels;
- › installation of window sills;
- › filling gaps in thermal insulation.

PRODUCT PROPERTIES

- › Adhesive has excellent adhesion to concrete, ceramic and wooden substrates, as well as to PVC and all types of polystyrene, plasters and substrates with bituminous coating, roofing felt and asphalt insulating masses, steel sheet and vapour barrier membranes.
- › After 2 hours after bonding, initial hardening is achieved, allowing the continuation of work related to mechanical fixing of insulation boards.
- › Full hardening of the polyurethane joint is achieved after 24 hours.

Technical Data Sheet (TDS) POLYURETHANE ADHESIVE

TECHNICAL PARAMETERS

Colour	Light yellow
Working temperature (ambient temperature)	from -5°C to +30°C
Working temperature (of substrate layer)	from -5°C to +50°C
Can temperature	optimally +20°C
Open time	about 4 min (23°C, RH 50%)
Correction time	about 4 min (23°C, RH 50%)
Mechanical fixing time	after about 2 h
Full hardening time	24 h
Adhesive yield* * depends on air humidity and temperature, can temperature, quality of foam dispensing gun, worker's skills	up to 12 m ² of thermal insulation
Tensile strength	≥ 80 kPa
Shear strength	≥ 75 kPa
Solubility in organic solvents	acetone, before hardening

The above table is for informational purposes only

DELIVERY FORM | PACKAGE

Aerosol can, 750 g

DIRECTIONS FOR USE

Substrate preparation:

The substrate should be clean, dry, free of dust, dirt, soiling, oils, greases, paint residues and other contaminants (anti-adhesives in particular) that may cause insufficient adhesion of the adhesive to the substrate. Check the adhesion of the existing coatings, bituminous layers, bituminous waterproofing, and vapour barrier membranes. The layers that no longer adhere must be removed.

Unstable and dust-generating substrates must be cleaned and primed prior to commencement of insulation works with the use of the adhesive. Prior to commencing adhesive binding of polystyrene foam insulation board at low temperatures remove hoar frost from the substrate and dry any damp patches. In case of substrates with bituminous surface, and vapour barrier membranes (with unknown parameters) it is worth conducting an adhesion test, that is, bind a board with applied polyurethane adhesive to a previously prepared fragment of the substrate and then, after about 2 hours (minimum duration) perform a test to break the adhesive bond. The bituminous substrate must be seasoned, well-connected, and moisture evaporated from the entire thickness of the coating. In the case of hydrophobized or coated insulation boards it is necessary to sand the surface to be bonded with the adhesive, for example, with sandpaper (with a rasp intended for styrofoam) to increase to adhesion of the adhesive to the surface.

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Product preparation:

Before use, warm the can with foam adhesive to room temperature (optimally +20°C) by, for example, immersing the can in warm water. Shake the can vigorously for 30 seconds to thoroughly mix the ingredients. Screw the can onto the expanding foam gun.

Adhesive application:

General recommendations:

Dispense the adhesive in the 'upside down' working position. Adjust the adhesive flow by adjusting the knob or pressing the trigger of the application gun. If application is interrupted for more than 15 minutes, secure the foam dispensing gun, leaving the can screwed on the gun until the next use. When work is complete, clean the gun of adhesive residue with PU Expert Line Foam Cleaner

Fixing of Insulation board:

Apply the adhesive in vertical beads (the general diagram of the procedure is presented on the Figure No 1) approx. 3 cm wide maintaining equal spacing of 20-30 cm. Ensure 3 cm clearance from the edge of the board.

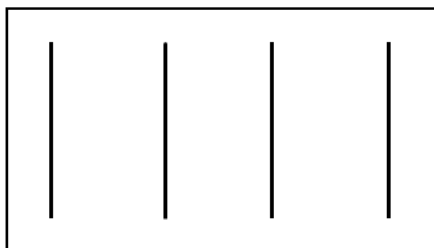


Fig. 1

In corner areas at the edges of the roof, the number of adhesive beads applied should be increased at 10 cm intervals. After applying beads of adhesive, it is necessary to wait about 3 minutes (at the temp. of 20 °C) or 5 minutes (at the temp. of -5 °C), and then the board should be placed on the surface insulated and the board's position should be adjusted. The board position can be precisely corrected (without removing from the bonding surface) within 4 minutes from joining it to the surface insulated. The thickness of the joint should be 8 mm or 15 mm. After 2 hours it is possible to carry out dowel fixing or to walk on the boards fixed. The use of fasteners and mechanical separators is recommended if the technical design provides for such fixing. Fill the gaps and joints between the bonded boards with adhesive.

ATTENTION: The works employing the adhesive should not be carried out during atmospheric precipitation, strong sunlight or strong wind. Adhesive binding of insulation boards on surfaces with temperature greater than 50°C should be avoided, and on sunny days it is required to perform substrate temperature measurement prior to commencing insulation works.

STORAGE AND EXPIRY DATE

Store in a dry, cool and well-ventilated place, in an upright position, in the original closed container. Keep away from heat, open flames and other ignition sources. Recommended storage temperature is from +5 °C to +30 °C (optimally +20 °C). Storing the product in conditions other than recommended may result in shortening its lifetime by up to 3 months. Do not store the product in the cabin of a car. Transport only in the trunk.

Expiry date: 15 months. Store and use before the expiry date indicated on the bottom of the container.



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POLYURETHANE ADHESIVE

HEALTH AND SAFETY RECOMMENDATIONS

When using this product, normal occupational hygiene rules should be followed. Keep out of reach of children. Before use, familiarize yourself with the conditions for safe use of the product on the packaging and in this technical data sheet. Detailed information on the safety of use and hazards posed by the product is included in the Material Safety Data Sheet.

With the publication of this data sheet, all previous editions become invalid. Release: 01/25

The product information contained in the technical data sheet is the result of conducted research. With regard to the possibility of using the product (point 3 of this technical data sheet), they should be treated only as recommendations resulting from the manufacturer's experience. Due to the numerous application possibilities and a wide range of work methods using the product, the Manufacturer does not bear any responsibility in this respect, and in particular is not responsible for the consequences of improper use of the product or the effects of work involving the product. Product information is valid only in its most current version.

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