

ISOMAT PU-FOAM THERMO

One-component, low-expansion polyurethane foam for thermal insulation boards

Description

One-component, solvent-free, low-expansion polyurethane adhesive foam that cures on exposure to atmospheric moisture. Suitable for fixing polystyrene thermal insulation boards.

ISOMAT PU-FOAM THERMO offers:

- Excellent adhesion to most common materials.
- High thermal and acoustic insulation.
- Low expansion.
- Resistance to moisture.
- Resistance to aging.

Fields of application

ISOMAT PU-FOAM THERMO is used for fixing thermal insulation boards of extruded or expanded polystyrene. Features excellent adhesion to render, masonry, mortars, bitumen, wood, gypsum, hardboard, and metal. For indoor and outdoor applications.

Technical data

Base:	polyurethane
Density:	18-20 kg/m ³
Service temperature:	-40°C to +90°C
Film formation time:	7-8 min (at 20°C, RH >30%)
Curing time:	1h / 93% RH, 18 h / 15% RH, max 24 h
Reaction to fire (DIN 4102):	B3
Thermal conductivity (DIN 52612):	0.03 W/(m.K)
Water absorption (DIN 53428):	max 1 vol %
Tensile strength (DIN 53455):	0.07 Mpa
Elongation at break (DIN 53455):	20%
Application temperature:	+5°C - +35°C

Directions for use

1. Substrate preparation

The substrate must be clean and free of dust, loose particles, grease, etc.

2. Application

Shake ISOMAT PU-FOAM THERMO well before use. Remove the lid and mount the product on the special gun. Apply the adhesive foam in dots or as beads to the perimeter of the board, keeping all beads at least 5 cm from the edges of the board, and then cover the rest of the board applying successive strips placed at intervals of approx. 30cm. The recommended strip thickness is 10-12mm. After 30-40 minutes, use the system's collar head anchors to support the boards until the foam cures. Note that you must fit an aluminium baserail/starter track to the wall to give the system a level starting point while ensuring that the boards remain in position, preventing sliding.

Fill the gaps between the edges of boards with ISOMAT PU-FOAM THERMO to obtain efficient wall insulation without thermal bridges.

Wetting of the surface of the board prior to the application of ISOMAT PU-FOAM THERMO is recommended.

Wetting of the substrate with water improves the adhesion and speeds up the curing time of the foam.

Consumption

One 830 ml can lasts for an area of ~13.5 m² ±20%, for insulation board fixing.

Consumption depends on the thickness of the material ejected, the number of the strips applied, and the type of the substrate.

Packaging

830 ml can.

Shelf life – Storage

12 months from production date if stored in frost-free conditions, protected from high temperatures.

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Remarks

- Minimum application temperature is +5°C.
- ISOMAT PU-FOAM THERMO should not be stored at temperatures above +50°C. For longer shelf life, temperatures above +25°C and under -5°C must be avoided.
- The surface to be applied may be wet but not frozen.
- Cans must be conditioned in normal temperature conditions for at least 12 hours before use.
- Cured foam should be protected from sunlight.
- ISOMAT PU-FOAM THERMO is not suitable for use on polyethylene and silicone.
- ISOMAT PU-FOAM THERMO is not suitable for permanent underwater use.
- ISOMAT PU-FOAM THERMO does not substitute the mechanical support provided by the collar head anchors.
- Always store in an upright position.
- Please consult the instructions for safe use and precautions written on the packaging before use.

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