

Technical Datasheet

ISOMAT PU-FOAM THERMO

Low-expansion polyurethane adhesive foam, gun-grade

Description – Fields of application

ISOMAT PU-FOAM THERMO is a low-expansion, moisture-curing, one-component, self-expanding, gun-applied polyurethane adhesive foam. It provides excellent adhesion to most common building materials, including wood, plaster, concrete, stone, metal, etc. while offering thermal and sound insulation properties along with resistance to moisture and aging.

Classified A+ (the highest rating), according to the French VOC regulation, for evaluation of VOC emissions.

Fields of application

ISOMAT PU-FOAM THERMO is intended for interior and exterior bonding of extruded or expanded polystyrene thermal insulation boards to plaster, concrete, stone, masonry, metal, wood, etc. It is also suitable for mounting and sealing gaps around door and window frames, for filling holes, voids and cavities, for filling around pipe penetrations in walls, applications where the use of low-expansion polyurethane foam is required, etc.

Technical data

Base:	polyurethane
Color:	yellow
Density:	14-18 kg/m ³
Tack-free time: (TM 1014-2013)	10 min (+20°C, R.H. 60%)
Cutting time (2 cm diameter strip): (TM 1005-2013)	max. 25 min (+20°C, R.H. 60%)
Final curing time:	12 h (+20°C, R.H. 60%)
Dimensional stability: (TM 1004-2013)	max. ± 5% (+20°C, R.H. 60%)
Reaction to fire: (DIN 4102)	B3
Thermal conductivity: (EN 1745)	$\lambda=0,0398$ W/m·K
Foam yield: (TM 1007-2013, 750 ml)	40-45 l

Application temperature: from +5°C to +35°C

Directions for use

1. Substrate preparation

The substrate must be clean, free of dust, loose materials, grease, oil, etc. Before the foam application, the surface may be wet but free from frost.

2. Application

The can should be shaken vigorously for at least 1 min before use. Then the cap must be removed, and the can screwed onto the special gun. The can should be held upside down, making sure the valve is facing downwards while dispensing. The foam flow can be regulated by applying different pressure on the gun trigger.

ISOMAT PU-FOAM THERMO should be applied in a 3 cm wide strip evenly around the perimeter of the board, approx. 2 cm from the edge, and one strip in the middle, parallel to the longest side of the board. At least 40% of the board surface should be covered with foam after pressing it into position. Boards can be adjusted within the next 10 min.

If necessary, any gaps between boards should be sealed with ISOMAT PU-FOAM THERMO. 45-60 min after installation, the boards can be supported with fixing anchors.

In the event of long interruptions of use, can should be shaken again.

The application gun must be cleaned immediately after use with ISOMAT PU-FOAM CLEANER.

Yield

One can is sufficient for fixing 13 m² ± 5% of thermal insulation boards but exact yield depends on application thickness, number of strips applied and substrate type.

Packaging

830 ml can.

Shelf life – Storage

18 months from production date, stored in an upright position with the valve facing upwards, in dry and well-ventilated areas, at temperatures between +5°C to +25°C.



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Remarks

- The optimal can temperature for application is between +15°C και +20°C.
- Cured foam must be protected from prolonged UV light exposure.
- Fresh foam can be removed using ISOMAT PU-FOAM CLEANER, whilst cured foam can only be removed mechanically
- ISOMAT PU-FOAM THERMO does not adhere to polyethylene (PE), polypropylene (PP), Teflon (PTFE) and silicone.
- ISOMAT PU-FOAM THERMO cannot serve as a substitute for mechanical support.
- Protective glasses and gloves should be used during application. For more information, please refer to the relevant Safety Data Sheet (MSDS).
- Consult the directions for safe use and precautions written on the packaging before use.

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