

## THERMOFOAM 2 SEAL

### POLYURETHANE FOAM STYRENE ADHESIVE FOR EPS-XPS INSULATION BOARDS

**Description :** One component, low-expansion polyurethane foam, without solvents for professional use. It is polymerized with the humidity of the atmosphere. It has a great adhesiveness on plaster, concrete, bricks, wood, HDF, metal, bitumen surfaces etc.

**Uses:** It is used for the adhesion of polystyrene insulation boards in ETICS systems. THERMOFOAM 2 SEAL does not substitute additional mechanical fixing of the boards with suitable anchors until the curing of the adhesive.



**Advantages:**

- Great adhesiveness to most ingredients (apart from polyethylene and silicone surfaces)
- Low expansion
- High thermal and acoustic insulation
- Humidity resistant
- Aging resistant

#### Packaging

**/distribution :** Cans of 830 ml.

#### Storage:

It can be preserved for 12 months after the production date. Do not store in temperature above 50°C. For longer shelf life, do not store the cans at temperatures above 25°C and below -5°C.

The cans should always be stored vertically

#### Specifications - Technical characteristics:

- Description: Viscose mixture, which is transformed into a foam upon release from the bottle and is polymerized by absorbing the humidity of the atmosphere
- Base: Polyurethane
- Odor: Slight, typical odor during polymerization. Once polymerization is over, it becomes odorless.

- Density: 32 - 40 kg/m<sup>3</sup>
- Film formation time: 7-8 min (20°C, RH> 30%)
- Hardening time: 1 h / RH 93%, 18 h / RH 15% max 24h
- Fire class: B2 (DIN 4102)
- Thermal conductivity (DIN 52612): 0.03 W/(m.K)
- Thermal stability of the polymerized foam: -40°C up to 90°C (and up to 140°C for brief intervals)
- Water absorption of the polymerized foam (DIN 53248): Max 1% per volume
- Tensile strength (DIN 53455): 0.07 MPa
- Maximum expansion (DIN 53455):20%

**Application method:**

- Before application, clean the surfaces from dirt, rickety materials, impurities, oils and solvents.
- Apply by using a professional PU foam gun. Before using the spray gun lubricate it with grease or teflon spray. Place the THERMOFOAM 2 SEAL BOTTLE onto the gun and screw. Adjust the flow of the material by rotating the screw located at the back side of the gun
- The application temperature should range between +5°C and + 35°C
- Apply THERMOFOAM 2 SEAL around the edges of the insulation board, in 5 cm distance from each edge. In addition apply in consecutive stripes with 30 cm intervals. The suggested stripe thickness is 1 – 1.2 cm
- It is suggested to moisten the insulation boards surface before applying the foam, in order to enhance adhesion and increase curing speed
- In case of gaps between the insulation boards, fill them with extra foam to avoid thermal bridges.
- Apply the fixing anchors to the boards, 30-40 minutes after their placement on the wall
- Dried particles can be removed mechanically. To clean the application gun, use an appropriate polyurethane solvent (attach the solvent bottle to the gun and spray until there's no foam left in the gun)

*We guarantee the quality of all our products, on the basis of their technical specifications and this technical data sheet. Such guarantee refers only to the products that we deliver for use and not to its application or final result, which largely depend on the experience and quality of work of each user and on the application conditions. The user is advised to test the product on a small scale, and if he is satisfied with the result, then to use the product on large scale in his project. This edition of technical data sheet automatically cancels any previous version*