

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.

FIELDS OF APPLICATION

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.

CHARACTERISTICS/ADVANTAGES

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

PRODUCT INFORMATION

Packaging	Cans of 830 ml.
Storage conditions	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. <u>The cans should always be stored vertically</u>

TECHNICAL CHARACTERISTICS

Description:	Viscose mixture, which is transformed into a foam upon release from the can 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 ³
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:	0.03 W/(m.K) (DIN 52612)
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:	Max 1% per volume (DIN 53248)
Tensile strength:	0.07 MPa
Maximum expansion:	20% (DIN 53455)

DIRECTIONS OF USE

- 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 consecutives 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)

HEALTH, SAFETY & ENVIROMENTAL PROTECTION

Detailed information and instructions regarding the safe management of the product and in matters of Health & Safety, are provided in the most recent Safety Data Sheet (SDS), copies of which are available on the company's website <https://marmoline.gr/> or upon request.

LEGAL NOTICE

We guarantee the quality of all our products, based on their technical specifications, as described in the Declaration of Performance (CE) and this Technical Data Sheet. Such guarantee refers only to the products that we deliver for use and never to its application or final result, which largely depends 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.

All data stated in this Technical Data Sheet are based on laboratory tests. The really measurable data might differentiate due to conditions that are not subject to our control. The recommendations and implementation instructions must be considered by the user as indicative, and always with given that the product has been traded and traded and stored according to its instructions.

As it is not possible to control the parameters/conditions of its application product in practice, no guarantee is provided for the final result of each application. Consequently, no legal liability of the Company can be established based on the information and instruction given in this Technical Data Sheet.

The Company reserves the right to modify data listed in this Product Data Sheet, with no previous warning. Users must refer to the latest version of the product Technical Data Sheet .