

## **GEBIFOAM BUILD ISOLAMENTI – CS14 /CS17**

### **POLYURETHANE ADHESIVE FOR POLYSTYRENE**

#### **Description**

One component polyurethane adhesive without solvents, for professional gun application, designated for bonding insulating polystyrene plates and panels. Used as adhesive for perimeter insulation in conditions of regular humidity. Not recommended against moisture.

**One tube weighing 825 ml of product covers a surface of bonded polystyrene of 15 m<sup>2</sup> ± 20%**, function of the diameter of the stripe applied with the gun, of the number of applied stripes, of the type and surface of support material.

#### **Applications**

It is used for gluing polystyrene profiles, on the inside and on the outside. This product is recommended both for the construction of new buildings and for the renovation of old ones. The adhesive may be used for gluing the thermal-insulating polystyrene layer related to the thermal insulation systems, performed in compliance with the **European Guide for the Technical Agreement of Exterior Thermal Insulation Systems - ETAG 004:2000 “External Thermal Insulation Composite Systems with Rendering” (ETICS)**.

#### **Surfaces (surface type, surface preparation). Adherence**

Apply the product only on adhesive, dry, clean surfaces, free of dust, grease, oil or other contaminants. Excellent adherence on concrete, AAC, brick, mortar, bitumen, wood, OSB chipboards, plasterboard and metallic surfaces.

After cure, the product resists to temperatures ranging between -40°C and +90°C.

#### **Limitations**

Application not recommended on polyethylene and silicone surfaces. **Not recommended in underwater spaces** and it does not prevent the occurrence of moisture. The gluing of thermal insulating plates/panels with GEBIFOAM ISOLAMENTI – polyurethane adhesive for polystyrene – does not replace their mechanic fastening with sockets for polystyrene (made of metal or plastic).

#### **Manner of application**

Apply with the professional gun, used for the polyurethane foam tubes, allowing a precise dosing of the adhesive upon its application.

Application temperature: +5°C ÷ +35°C.

Application procedure:

- Wet the surface of the support and of the polystyrene plate;
- Apply the adhesive on the support surface corresponding to the plate surface, on the contour, 5 cm away from the edge and inside the contour, in successive stripes with 30 cm distance in between;
- The recommended diameter of the stripes applied with a gun is 10 – 12 mm, for a surface of 15 m<sup>2</sup> of polystyrene glued with each tube of polyurethane adhesive with a capacity of 825 ml.
- Fasten the polystyrene plates in the final position in about 6 – 10 min, before the adhesive starts to cure;
- The polystyrene plates at the base of the wall must be supported from the lower part, to avoid their slipping off the wall until the adhesive cures and the plates are fastened (5 – 24 hours);
- Fill the spaces between the polystyrene plates with adhesive, to obtain an effective insulation.

**Important:** The polystyrene plates at the base of the wall must be supported from the lower part, to avoid their slipping off the wall until the adhesive cures and the plates are fastened.  
Temperature of the tube upon application: +5 - +25°C.

**Application with the professional gun**

Before use, grease the spray gun with grease or Teflon spray. Mount the adhesive tube onto the gun. Mount the plastic adaptor on the gun tip. Adjust the adhesive flow by rotating the screw at the end of the tube. After use, rotate clockwise the screw at the rear end of the gun, until the trigger can no longer be activated. Always store the gun with a tube of adhesive attached to it.

After the tube of adhesive is emptied, carefully remove it, while pushing the trigger to release the remaining gas.

**Instructions of use**

- Put on your gloves and goggles. Open the box and remove the metallic frame, the flexible hose of the gun;
- Attach the fitting to the flexible hose at the threaded end from the upper side of the collector;
- Attach the flexible hose at the entrance of the gun and clutch it with a spanner;
- Make sure the ball valves on the F adaptor, mounted onto the connector, are OFF;
- Stir the adhesive vertically;
- Screw the polyurethane adhesive onto the F adaptors mounted on the aluminum collector;

**Cleaning**

The raw (uncured) adhesive can be removed with GEBIFOAM D500 CLEANER. The cured adhesive can be removed mechanically or with the Cleaner with a gun. Never leave the D500 Cleaner tube attached more than one hour to the gun or to the system's adaptors.

**Color:** yellow

**Packaging:** 825 ml steel tubes.

## Technical characteristics

Bond strength:

	Substrate	Units	Acceptable performance level (ETAG 004:2000)	Method of determination	Performer	Determined value
1	Concrete	N/mm <sup>2</sup>	0.08	SR EN 13494:2005	ICECON TEST	0.115
2	AAC	N/mm <sup>2</sup>	0.08	SR EN 13494:2005	ICECON TEST	0.117
3	OSB	N/mm <sup>2</sup>	0.08	SR EN 13494:2005	ICECON TEST	0.119
4	plasterboard	N/mm <sup>2</sup>	0.08	SR EN 13494:2005	ICECON TEST	0.118

## Safety measures:

Read the data on the label and the technical data sheet before use. Do not spray close to flames. Protect your eyes and wear protection gloves and gear. Cover the carpets, curtains and furniture etc. within the area of application, with paper or plastic foil.

## Technical data:

Basis Polyurethane  
 Absent substances (H)CFC, PCB or formaldehyde  
 Density<sup>1)</sup> 11 - 16 kg/m<sup>3</sup> after curing  
 Temperature resistance after curing: - 40°C up to + 90°C (it resists up to + 140°C for short periods)  
 Fire class **B3 as per DIN 4102**  
 Class F as per EN 13501-1  
 Not a nutrient for insects or rodents  
 It does not facilitate the forming of fungi or mould

<sup>1)</sup> The specified physical properties are obtained pursuant to the laboratory measurements in ideal conditions and they may vary function of the conditions of use, temperature and the environment.

## Validity

**12 months** since the manufacturing date stipulated on the package; if stored and transported vertically, in the original unsealed pack, at temperatures ranging **between +5°C and +25°C**.

## Warranty and Liability

The manufacturer guarantees that the product complies with the technical specifications, during the validity period and provided the handling, transportation and storage measures stipulates in the technical and safety data sheets are complied with. All the data provided in this sheet is the result of the tests performed by the manufacturer and of its expertise and is of general nature. In spite all that, it does not involve any responsibility. It is the user's responsibility to check, by private tests, whether the product is suitable for the respective application. The manufacturer cannot be made liable for any consequential damage or for consequences due to the use of this product.