

## Section 1. PRODUCT DESCRIPTION

### PU ADHESIVE FOR FOAMED POLYSTYRENE THERMO-STYRO FIX – KST-750

PU adhesive for foamed polystyrene THERMO-STYRO FIX KST-750 is intended for fixing of insulation boards on façades and foundations. The adhesive has very good bonding and sealing properties. Provides excellent adhesion to most of building materials, except Teflon, polyethylene and silicone surfaces. It features low expandability and water absorption. The adhesive has very good thermal insulation and acoustic characteristics. It is not UV-resistant.

#### Use:

- installation of polystyrene (EPS) boards on buildings
- fixing of mineral wool
- fixing of roofing-tiles
- installation of internal and external window sills
- sticking of polystyrene caissons and wall panels
- additional sealing on board joints

#### Advantages:

- excellent adhesion
- allows for sealing of joints between thermal insulation material boards
- prevents thermal bridges on board joints
- used between +5°C and +30°C
- together with Klimas Wkręt-met fasteners for thermal insulation boards provides a complete fixing system ETICS



PU adhesive KST-750 holds National Technical Assessment: ITB-KOT-2018/0362 Rev. 1



## Section 2. METHOD OF USE

1. Works with PU adhesives should be carried out with temperature and humidity within values declared by the manufacturer
2. Store adhesive container for 24h in room temperature or other specified in manufacturer's instructions
3. Surface on which adhesive is applied should be cleaned, free from dust, grease or other contaminations
4. In the case of low air humidity (below 50% RH) moisten the substrate. Moistened substrate ensures faster curing.
5. Apply the adhesive using an applicator as gun which regulates the amount of adhesive
6. Hold the container in an upright position with the valve up and twist the can into gun socket until you feel slight resistance
7. Make sure that the gun is not pointed at any person when the can is twisted
8. Do not twist the can into the gun while holding it with the valve down or rotating the gun
9. Once the gun is fitted shake the adhesive container vigorously at least 20 times
10. Use adhesive for thermal insulation boards, apply in parallel to the sides (3-4cm from edge) and with one strip in the middle, in parallel to the longest side (up to 25cm between adhesive strips)
11. After the adhesive is applied on the boards wait 2-3 minutes, and then press the board to the wall
12. The installed polystyrene boards can be re-aligned within 5 minutes
13. After application make sure to remove uncured adhesive from tools and surfaces using cleaning solution for guns and foams CZP-500
14. At low temperatures adhesive container should be heated up before operation in a warm room or in water. Temperature of room or water should not exceed +30°C

**PRODUCT DATA SHEET – KST-750**

**Section 3. TECHNICAL DATA**

TECHNICAL PARAMETERS		
Parameter	Unit	Value
Capacity	[ml]	750
Number of pieces in a box	-	12
Ambient temperature	[°C]	+5 ÷ +30
Increase in foam height	[mm]	≤ 1,5
Shear strength	[kPa]	≥ 50
Shear modulus of shear	[kPa]	≥ 350
Tensile strength perpendicular to the surface	[MPa]	≥ 0,08
Spreading rate (wall area)	[m <sup>2</sup> ]	5 ÷ 8
Acoustic resistance	[dB]	60
Heat transfer coefficient	[W/mK]	0,034
Gelling time	[min]	8 (± 1)
Skin formation time	[min]	10 ÷ 12
Cutting time	[min]	28 (± 10%)
Complete curing (+5 °C)	[h]	24
Adhesion to EPS	[N/mm <sup>2</sup> ]	0,033
Adhesion to XPS	[N/mm <sup>2</sup> ]	0,039
Density	[kg/m <sup>3</sup> ]	20,3 (± 15%)
Cured adhesive flashpoint	[°C]	400
Colour	-	pink

\*The given values were obtained at +23°C and 50% RH

**Storage:**

Store and transport cans with adhesive only in an upright position. Store in a cool and dry place, in temperature from +5°C to +30°C. Do not store in a temperature above +50°C, near sources of heat or in places exposed to direct sunlight. Guaranteed time of storage in a tightly closed package is 9 months.

**Safety precautions:**

Flammable. Protect against overheating and keep away from sources of ignition. Avoid direct sunlight. Do not smoke at work. The product may cause sensitisation when in contact with the skin, thus provide adequate ventilation during work, wear protective glasses and gloves. Keep out of the reach of children.

Cured adhesive poses no risk to human health.

Cured adhesive poses no risk to human health. Detailed safety information can be found in MSDS.

**Section 4. REMARKS**

1. All previous versions of this Product Data Sheet shall cease to be valid
2. Data given in this Product Data Sheet is in accordance with current knowledge and published in good faith. KLIMAS Sp. z o.o. is not responsible for correctness and quality of the fixing if recommendations regarding method of use and installation are not followed.