

Thermal Insulation Systems / Polyurethane Based Adhesives**PU 961**

PU Adhesive Foam

DESCRIPTION

Single component, **polyurethane foam** which is cured very fast with the humidity in the air. It is applied with its special gun and used for fast and strong adhesion of thermal insulation boards.

APPLICATION AREAS

- Indoor and outdoor
- Bonding EPS and XPS boards used in thermal insulation systems
- Bonding and fixing materials such as wood, concrete, metal, brick etc.
- Bonding decorative construction elements such as frames of coated EPS used on facades
- Applications where minimum expansion of foam is required
- Mounting and isolating frames of doors and windows.

TECHNICAL PROPERTIES

Appearance	Pink colored foam
Mixture Density	21 ± 3 g/cm ³ (ASTM D1622)
Tack-Free Time	6 ± 2 min. (ASTM C1620) (1 cm width)
Cutting Time	25 - 35 min. (ASTM C1620) (1 cm width)
Fire Class (Cured Foam)	B3 (DIN 4102)
Expansion Rate	30 - 50%
Yield	40 - 50 L/1000 ml (ASTM C 1536)
Thermal Conductivity Coef.	0.030 W/mK (+20°C) (DIN 52612)
Application Temperature	Between +5°C and +30°C
Service Temperature	-40°C / +100°C

ADVANTAGES

- Bonds perfectly on all types of surfaces (except PE, PP, teflon)
- Has high thermal and acoustic insulation property.
- Resistant to all kinds of weather conditions and vapor.
- Its expansion on the surface is minimum. Does not expand and lose volume when cured.
- Enables working even in low temperatures.
- Enables plugging after approximately 2 hours due to fast curing. Saves time.
- Easy to apply, labor effective.
- Water impermeable, mould resistant and overpaintable.
- Ready to use.
- Does not contain propellant gases harmful to ozone layer.

CONSUMPTION

40 - 50 L/1000ml (Varies depending on the application surface and the application method.)

APPLICATION

PREPARATION OF THE SURFACE

- The surface must be cured.
- The surface must clear of materials which prevent bonding, such as dust, oil, tar, bitumen, paint, silicone, curing agents, detergents and mold release oils.
- Remove the loose parts on the surface, repair the cracks and level the surface.
- Slightly moisten the surface before application to accelerate the curing and increase the adhesion force.

APPLICATION

- Fix the application gun to the adapter on the tube and shake the tin. Hold the tube upside down, adjust the foam output speed with the trigger and the valve behind it.
- Apply PU 961 on the back side of the thermal insulation boards to form a frame, leaving a gap of 2 - 3 cm from the sides, and in the middle of it in longitudinal parallel lines.
- Adhere the board to the surface without leaving gaps within 3 minutes by slightly pressing. Check the surface frequently with a spirit level and gauge.
- Remove the foam smeared around with a foam cleaner or acetone. After the foam has hardened, cleaning is only possible by mechanical means.

CAUTION

- Avoid application in temperatures below +5°C and above +35°C.
- For optimum results, keep the product at room temperature for at least 12 hours before application or in warm water (maximum +40°C) for 20 minutes.
- The tube is under pressure, it should not be exposed to direct sunlight and temperatures above +50°C.
- The curing time and yield of the foam change with temperature. At low temperatures, the curing time is prolonged and the foam yield decreases.

PACKAGING

750 ml (Gross 850 g) pressurized tin cans

SHELF LIFE

Unopened packages can be stored for 15 months in a dry and moisture-free environment. This period may be shortened if stored below +5°C and above +30°C. During storage and transportation, it should be kept upright with the valves facing up.

HEALTH AND SAFETY

Contains diphenylmethane -4.4 diisocyanate. As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Do not leave the cover open. Avoid prolonged contact with uncured silicone. May be harmful if inhaled. For this reason, use carefully in sufficiently ventilated environments. Keep away from igniting materials and working electrical equipment. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.