

ONE-COMPONENT POLYURETHANE FOAM ADHESIVE FOR EPS/XPS – GUN GRADE

STRUKTORR ADHESIVE FOAM 900

One-component fast polyurethane foam adhesive with moisture curing, developed specially for bonding EPS and XPS insulation boards. **Fast initial tack, low thermal conductivity** – no erosion of polystyrene.



DESCRIPTION

Struktur Adhesive Foam 900 is one-component polyurethane foam adhesive with moisture curing, developed specially for bonding EPS and XPS insulation boards. It features fast initial tack, low thermal conductivity and excellent adhesion to polystyrene foam without damage. Suitable for thermal insulation systems, wall panel installation, exterior wall insulation, ceiling board fixing and general construction gap filling and bonding. It is also used for bonding autoclaved aerated concrete (AAC) blocks and bricks, and for floor and ceramic tile installation.

RECOMMENDED FOR

- Bonding EPS and XPS thermal insulation boards on interior and exterior walls
- Fixing ceiling foam panels, decorative polystyrene mouldings and light wall panels
- Bonding insulation layers to concrete, brick, timber, metal, plasterboard, autoclaved aerated concrete (AAC), OSB, MDF, chipboard
- Bonding autoclaved aerated concrete (AAC) blocks and bricks
- Gap filling and auxiliary fixing for window sills, partition boards, floor steps and decorative stone
- Low thermal bridge construction for cold storage, garages and insulation projects

FEATURES & BENEFITS

- Specially formulated for EPS/XPS – no erosion or dissolution of polystyrene
- Fast surface drying and rapid positioning; high initial tack
- Low density and ultra-low thermal conductivity – excellent thermal insulation
- High compressive and bonding strength; stable long-term load-bearing capacity
- Gun-type design – easy, uniform extrusion with controllable foaming ratio
- Moisture curing; good compatibility with concrete, masonry, wood, metal and ceramic

COMPLIANCE & STANDARDS

Fire classification B2

One-component PU foam adhesive

FEICA

APPLICATION PROCEDURE

Substrate preparation

- Surfaces must be clean, dry, dust-free and free of grease, release agent and loose residues.
- Slightly mist dry substrates with clean water to accelerate curing speed.

Application

1. Shake the aerosol can vigorously for at least 1 minute.
2. Screw the professional PU foam gun tightly onto the can valve and invert the can during application.
3. Apply a continuous foam bead along the back of the insulation panel with proper spacing between beads. Do not over-apply – excessive expansion pushes the panel off.
4. Attach the panel within 5 minutes for stable positioning.
5. After 40–50 minutes, once fully skinned, the foam can be trimmed, cut and shaped.
6. Complete mechanical strength is reached after 24 hours at standard temperature and humidity.

LIMITATIONS

- Application temperature: +5 °C to +35 °C. Does not bond to polyethylene (PE), polypropylene (PP), PTFE (Teflon), silicone and bituminous substrates. Requires minimum relative humidity of 45 % – cures from atmospheric moisture, do not use in fully enclosed spaces.
- Do not use on food-contact surfaces without prior compatibility testing. Cured foam is not UV-resistant – cover it.
- Not a substitute for mechanical fastening where required by design.

YIELD & COVERAGE

- Linear coverage: ~20 m per 900 g canister (bead 3 × 2 cm, gun applied).
- Foaming ratio: ~30 times under standard conditions.
- Cured foam density: 22 kg/m³.
- Apply with proper spacing between beads; do not over-apply.

PACKAGING & STORAGE

Packaging	750 ml / 900 g aerosol can – gun grade · cartons of 12.
Manufacturer	Struktor Pro Bulgaria Ltd. – for Struktor Pro Bulgaria Ltd.
Shelf life	Best performance within 12 or 18 months (see can label) of production, in the closed, correctly stored original can.
Storage	Cool, dry, ventilated warehouse; away from direct sunlight, open flame and high temperature. Optimal storage temperature: +18 °C to +25 °C. Do not expose to temperatures above +50 °C

Warnings. Pressurised aerosol – do not pierce or burn, even after use; prevent collision, extrusion and sun exposure during transit. Wear protective gloves, safety goggles and a respirator. In case of eye contact, rinse with plenty of clean water for 15 minutes and seek medical treatment. Keep away from children, open fire and high-temperature heat sources; maintain sufficient ventilation on site.

TECHNICAL SPECIFICATIONS

Property	Value	Test standard / remark
Base	One-component polyurethane	—
Cure	Moisture cure	Atmospheric humidity
Tack-free time	2 min	—
Initial positioning time	5 min	—
Cutting time (trimmable)	40–50 min	—
Full cure	24 h	Complete mechanical strength
Density	22 kg/m ³	—
Compressive strength	25 kPa	FEICA
Tensile bond strength	88 kPa	
Shear strength	90 kPa	
Foaming ratio	≈ 30 times	Gun applied, standard conditions
Thermal conductivity	0.038 W/(m·K)	—
Linear coverage	≈ 20 m	900 g canister · bead 3 × 2 cm
Fire classification	Class B2	—

Test conditions: 23 ± 2 °C, 50 ± 5% RH, gun-applied specimen. Values are typical laboratory results and may vary with temperature, humidity, substrate type, application thickness and operation method.

The information above reflects our current knowledge and is given in good faith. None of our instructions or specifications relieves the user of the duty to verify the product's suitability for the intended use by adequate testing. However, because we have no control over where and how products are used or applied, we can not accept any liability, arising from the use of the products. Struktur Pro Bulgaria Ltd. reserves the right to change product properties at any time. Always refer to the current version of this Technical Data Sheet.