

Technical data sheet

Polynor 60 seconds polyurethane adhesive for insulation boards, for professional use with a foam gun

Product description:

One-component polyurethane adhesive for fixing insulation boards to facades, roofs and foundations, as well as for bonding boards indoors. Good adhesion to a wide range of construction materials, including polystyrene, plasterboard, wood, OSB, particleboard, concrete, stone, metal and PVC.

Base	Polyurethane
Curing	Polymerisation induced by air moisture
Density	31-41 kg/m ³
Ready for bonding after	1-2 min
Cutting time	28 min - 30 mm foam bead
Full cure	24 h
Shear strength (TR 46:2014)	7.1 N/cm ²
Shear modulus (TR 46:2014)	21.3 N/cm ²
Post-expansion	3.7%
Adhesion: EPS* to concrete (8 mm adhesive bead thickness)	0.093 MPa
Adhesion: XPS** to concrete (8 mm adhesive bead thickness)	0.101 MPa
Adhesion: EPS to wood (8 mm adhesive bead thickness)	0.087 MPa
Adhesion: XPS to wood (8 mm adhesive bead thickness)	0.065 MPa
Adhesion: PIR AL*** to concrete (8 mm adhesive bead thickness)	0.047 MPa
Adhesion: PIR ATX**** to concrete (8 mm adhesive bead thickness)	0.089 MPa
Volume shrinkage	None
Thermal conductivity	0.034 W/(m·K)

Sound reduction index Rst, w	60 dB
Temperature resistance of cured foam	(-60 °C to +110 °C)
Yield (****) (20 °C / 65% RH)	Up to 40 linear metres

(*) Expanded polystyrene

(**) Extruded polystyrene

(***) With aluminium foil

(****) With glass fibre

(*****) Values may vary depending on environmental conditions, such as temperature, humidity, etc., and on the surfaces to be bonded.

Excellent adhesion to a wide range of construction materials: polystyrene insulation boards (NEOPOR, EPS, XPS), polyurethane boards (PIR), phenolic foam boards (PF), rigid mineral wool, wood, concrete, masonry blocks, ceramic and porcelain tiles, metal, gypsum, OSB, aluminium, rigid PVC and others.

Areas of application:

- Fixing insulation and finishing boards of any size
- Fixing decorative elements,
- Bonding stair treads, skirting boards and window sills
- Insulation-to-insulation bonding (multiple layers)
- Steel roof or facade structures
- Bituminous roofing surfaced with sand or stone chippings
- Even and uneven surfaces

ADVANTAGES:

- Suitable for vertical application;
- Good bond strength;
- Precise and easy dispensing;
- Low adhesive consumption
- Low thermal conductivity of bonded joints;
- Bonds almost all insulation and finishing materials used in construction
- Quick and easy application
- Helps prevent thermal bridges

Application Conditions:

Application temperature: -5 °C to +30 °C; best results at +20 °C. Can temperature during application: +15 °C to +25 °C; best results at +20 °C. Surfaces must be free of dust, grease and loose particles. The cured adhesive can be painted with water-based paints.

Application instructions:

The surface must be clean. Remove dust and grease from the surfaces. Wear protective gloves and eye protection during application. Attach the gun while holding the can with the valve pointing upwards. Once the gun is attached, shake the can thoroughly (approximately 30 seconds). At low air humidity (below 50% relative humidity), the surface must be moistened, as the foam expands in the presence of moisture. Moistening the surface improves results. Apply at least three beads to each thermal insulation board. After applying the adhesive, wait 1-2 minutes, then press the board against the wall. The installed boards can be levelled by carefully adjusting their position within 3-4 minutes of pressing them into place. Any gaps between insulation boards must be filled with the same adhesive. Remove excess adhesive with a dedicated cleaner or acetone. Protect cured adhesive from UV light.

Colour:

Peach

Packaging:

750 ml aerosol can. Quantity per box: 12 pcs

Shelf life in unopened packaging: 12 months.

Storage:

Cans must be stored and transported upright. Store in a cool, dry place at +5 °C to +35 °C. Aerosol cans must not be stored at temperatures above +50 °C or in direct sunlight.

Safety requirements:

The product is flammable. Protect from overheating and keep away from sources of ignition. Avoid direct sunlight. Do not smoke when using this product! May cause an allergic reaction if inhaled or in contact with skin. Provide adequate ventilation. Wear safety goggles and gloves. Keep out of reach of children. Cured foam can be touched without any risk to health.

For detailed safety information, refer to the Safety Data Sheet (SDS).