

Technical Data Sheet

INSOLA Styro Fix Home polyurethane adhesive for insulation boards, for DIY application with a straw applicator

Product description:

One-component polyurethane adhesive for bonding insulation boards to facades and foundations, as well as for interior board installation. Provides good adhesion to a wide range of construction materials, including polystyrene, plasterboard, wood, OSB, particleboard, concrete, stone, metal and PVC.

Base	Polyurethane
Curing mechanism	Moisture curing
Density	43 ± 15% kg/m ³
Tack-free time	9 min
Cutting time	58 min - 30 mm adhesive 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	≤7
Adhesion of EPS* to concrete (8 mm adhesive bead)	0.093 MPa
Adhesion of XPS** to concrete (8 mm adhesive bead)	0.101 MPa
Adhesion of EPS to wood (8 mm adhesive bead)	0.087 MPa
Adhesion of XPS to wood (8 mm adhesive bead)	0.065 MPa
Adhesion of PIR AL*** to concrete (8 mm adhesive bead)	0.047 MPa
Adhesion of PIR ATX**** to concrete (8 mm adhesive bead)	0.089 MPa
Volume shrinkage	None

Thermal conductivity	0.034 W/(m·K)
Sound reduction index R _{st,w}	60 dB
Temperature resistance of cured adhesive	-60 °C to +110 °C

(*) Expanded polystyrene

(**) Extruded polystyrene

(***) Aluminium foil faced

(****) Glass-fibre faced

(*****) Performance values may vary depending on ambient conditions, such as temperature and humidity, and on the substrates being bonded. Tests were performed using an 850 ml product fill.

Applications:

Suitable for installing insulation and finishing boards of any size, decorative elements, stair treads, skirting boards and window sills. Provides excellent adhesion to a wide range of construction materials, including polystyrene insulation boards (NEOPOR, EPS and XPS), polyurethane insulation boards (PIR), phenolic foam boards (PF), wood, concrete, masonry blocks, ceramic and porcelain tiles, metal, gypsum, OSB and aluminium.

ADVANTAGES:

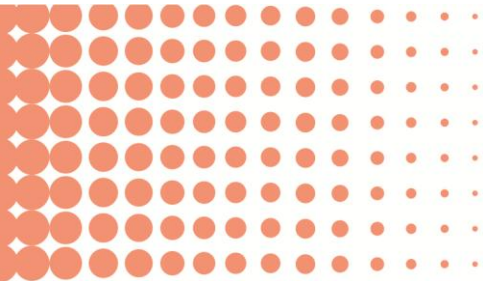
- Suitable for vertical applications;
- High bond strength;
- Easy and accurate dispensing;
- Low adhesive consumption;
- Low thermal conductivity of bonded joints;
- Bonds nearly all common insulation and finishing materials;
- Fast and easy application;
- Helps prevent thermal bridging.

Application conditions:

Application temperature: -5 °C to +30 °C; optimum performance is achieved at +20 °C. Can temperature during application: +5 °C to +25 °C; optimum can temperature is +20 °C. Surfaces must be free from dust, grease and loose particles. Once cured, the adhesive may be painted with water-based paints.

Instructions for use:

Ensure that the surface is clean and free from dust and grease. Wear protective gloves and eye protection during application. Hold the can with the valve pointing upwards when attaching the straw applicator. Once the applicator is fitted, shake the can thoroughly for approximately 30 seconds. At low



ambient humidity (below 50% RH), lightly moisten the substrate, as the adhesive cures by reacting with moisture. Moistening the surface improves curing and final performance. Apply at least three adhesive beads to each thermal insulation board. After application, wait a few minutes, but no longer than 7 minutes, before pressing the board firmly against the wall. The position of the installed board may be carefully adjusted for up to 5 minutes after fixing. Fill any gaps between insulation boards with the same adhesive. Remove uncured excess adhesive with a suitable PU foam cleaner or acetone. Protect cured adhesive from UV radiation.

Colour:

Grey

Packaging:

750 ml aerosol can. Quantity per carton: 12 cans.

Shelf life in unopened packaging: 18 months.

Storage:

Store and transport cans in an upright position. Store in a cool, dry place at +5 °C to +35 °C. Do not expose aerosol cans to temperatures above +50 °C or to direct sunlight.

Safety requirements:

The product is flammable. Protect from heat and keep away from ignition sources. Avoid direct sunlight. Do not smoke while using the product. May cause an allergic reaction if inhaled or in contact with skin. Ensure adequate ventilation. Wear protective gloves and eye protection. Keep out of reach of children. Fully cured adhesive presents no health hazard when handled.

Detailed safety information is provided in the Safety Data Sheet (SDS).