

## TECHNICAL DATASHEET

# PENOSIL Premium Polystyrol FixFoam 877

Foam adhesive for fixing insulation boards on facades and foundations and fixation of interior design boards to walls. Fixfoam has very good adhesion properties. Adheres well to most construction materials, except Teflon, polyethylene and silicone surfaces. Packed in an aerosol can, can be used with a foam gun, moisture-curing. Cured foam is a good temperature and sound insulator. After curing does not resist UV-radiation and needs to be covered. Adheres well to most construction materials like polystyrene, plasterboards, wood, OSB, chipboard, concrete, stone, metal and PVC.

### Fields of application

Used for installation of insulated panels made of polystyrene foam (also known as polystyrol foam or Styrofoam, EPS or XPS) on façades and foundations of new construction works as well as for insulation of buildings needing thermal renovation. For the fixing of stone wool. For fixing of roof tiles and insulation purposes. For fixing of window sills.

### Application conditions

Usage temperature between -5 °C and +30 °C, best results at +20 °C. Can temperature during application +5 °C to +25 °C, best results at +20 °C. The surfaces must be clean from dust, loose particles and oil. Cured foam can be painted with water-based paints.

### Application instruction

Hold the foam can in upright position, turn the gun to the can by holding the gun handle with one hand, and turn the can with the other hand. Make sure that the gun is not pointed to other persons when turning it. The can must not be screwed to the gun with the valve upside down or by turning the gun on the can. After fixing the gun, shake the can well at least 20 times. The foam output can be adjusted by gun trigger. In case of low air humidity (under 50% RH), the substrate should be moistened as the foam expands due to the moisture. A moistened substrate ensures faster curing and better result. At low temperatures foam can must be warmed before work in warm room or water. Temperature of room or water must not exceed +30 °C.

Apply the foam adhesive to insulation boards as an even flow, parallel with the sides of the insulation board (3–4 cm from the edge) and one stripe in the middle, parallel to the longest side (up to 25 cm between adhesive stripes). After applying the foam adhesive to the insulation board wait 2–3 min and then press the board to the wall. The level of installed foam polystyrene boards can be adjusted within up to 5 minutes. Use fastening equipment for balconies, ceilings or long spans.

### Cleaning

Uncured foam can be cleaned from tools and surfaces with PENOSIL Premium Foam Cleaner. Cured foam can be removed mechanically after softening with PENOSIL Premium Foam Remover. Hands, clothes and foam gun can be cleaned from uncured foam with moistened PENOSIL Premium Cleaning Wipes.

## Technical specification

Property	Unit	Value
Tack free time	minute	10–12
Cutting time (30 mm bead)	minute	30–40
Completely cured (at +23 °C)	hour	9–11
Completely cured (at +5 °C)	hour	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>	25–30
Fire class of cured foam (DIN 4102-1)		B2
Volume decrease	%	non
Flash point of cured foam	°C	400
Tensile strength (BS 5241)	N/cm <sup>2</sup>	11,2
Thermal conductivity	W/m <sup>2</sup> K	0,034
Sound reduction index	dB	60
Temperature resistance of cured foam	°C	long term: -50 to +90 short term: -65 to +130
Output	m <sup>2</sup> of wall surface	5-8

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified.

\*EPS – Expanded Polystyrene

\*\*XPS – Extruded Polystyrene

## Colour

Orange.

## Package

1000 ml aerosol can, content 750 ml, 12 cans in a box.

## Storage

The cans must be stored and transported in vertical position. Store in a cool and dry place at +5 °C to +30 °C. The foam cans must not be stored above +50 °C, in vicinity of heat sources or in direct sun light.

Guaranteed storage time in unopened package 12 months.

## Safety requirements

The product is flammable. Protect from overheating and keep away from ignitions sources. Avoid direct sunlight and do not smoke during work. May cause sensitization by inhalation and skin contact. Ensure sufficient ventilation during application. Wear safety glasses and gloves. Keep out of the reach of children. Cured foam can be handled without any danger to health.

Detailed safety information is available on safety data sheet (SDS).