

Technical Data Sheet

POLYNOR Eko Spray Pro spray-applied polyurethane thermal insulation for professional use with a foam gun

Product description:

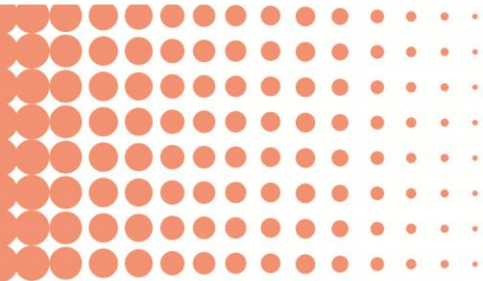
Ready-to-use, one-component, self-expanding spray polyurethane thermal insulation foam with a special spray applicator designed for attachment to the foam gun nozzle. It can be sprayed to insulate both horizontal and vertical surfaces. It is also ideal for insulating uneven or curved surfaces and hard-to-reach areas where conventional insulation materials are difficult to apply. Helps reduce thermal bridging and prevents condensation formation.

Base	Polyurethane
Curing	Polymerisation by atmospheric moisture
Tack-free time	15 min
Full curing	24 h
Thermal conductivity (EN 14315-1:2013)	0.030 W/(m·K)
Water vapour resistance factor μ	16.4–18.5
Water absorption (short-term, partial immersion)	0.11 kg/m ²
Closed-cell content	80%
Sound reduction index $R_{st,w}$	60 dB
Temperature resistance of cured foam	(-60 °C ... +110 °C)
Yield (*) (1 cm layer)	Up to 5 m ²

(*) Measured at 20 °C / 65% relative humidity. Values may vary depending on environmental conditions such as temperature, humidity, etc., as well as on the surfaces being bonded.

Areas of application:

Suitable for use on all types of surfaces to provide thermal and acoustic insulation. The spray-applied thermal insulation is particularly suitable for awkward, hard-to-reach areas where conventional insulation materials are difficult to apply. It is also suitable for the thermal insulation of attics, balconies, bathrooms, garages, basements, vessels and tanks. It can be used around lintels, doors, ceilings and other areas of building structures where thermal bridges tend to occur. Suitable for insulating all common building materials (such as concrete, masonry, stone, wood, EPS, plasterboard, most metals,



gypsum boards, rigid PVC, etc.). Does not adhere to PE, PP, PTFE or silicone. We recommend carrying out a preliminary adhesion and compatibility test on each surface.

Advantages:

- Seals all hard-to-reach areas in construction
- Reduces energy consumption. Provides highly effective thermal insulation.
- Acoustic barrier. Provides highly effective sound insulation
- Provides effective protection of the building against draughts and moisture.
- Remains flexible and does not crumble
- Water-resistant (impermeable to water)
- Suitable for uneven and hard-to-reach surfaces
- Prevents condensation build-up
- Helps prevent thermal bridges

Application conditions:

The ambient temperature during application may range from +5 °C to +35 °C; the best results are obtained

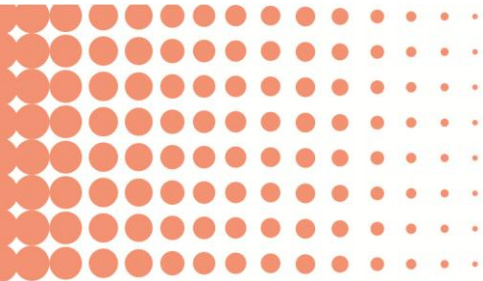
at +20 °C. The can temperature during application must be +18 °C to +25 °C; the best results are obtained at +20 °C. Surfaces must be free from dust, loose particles and grease. Cured foam may be painted with solvent-free paints.

Application instructions:

Fit the spray nozzle onto the end of the foam gun. Shake the aerosol can thoroughly at least 20 times. Holding the aerosol can upright, insert it into the gun. Hold the gun handle with one hand and screw the can into the gun with the other hand. Before attaching the aerosol can, make sure that the gun is not pointed at other persons. Do not screw in the aerosol can upside down or rotate the gun onto the can. Set the spray applicator to the required position (depending on vertical or horizontal spraying). Open the gun flow-rate adjustment screw to the maximum position. Foam output is controlled by pressing the gun trigger. Spray the foam from a distance of approximately 40 cm from the surface. The exact distance should be selected according to the width of the area to be sprayed – use a shorter distance for a narrower area and vice versa. Bear in mind that the applied foam expands to approximately twice its initial volume. Do not apply a layer thicker than 2.5 cm at one time. If additional layers are required, wait approximately 30 minutes before applying the next layer. Moisten after each layer.

Colour:

Yellowish white



Packaging:

1000 ml aerosol can, 850 g, 12 pcs per box.

Shelf life in unopened packaging: 24 months.

Storage:

Cans must be stored and transported in an upright position. Store in a dry, cool place at temperatures between +5 °C and +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. Contains isocyanates. May cause an allergic reaction. Always wear safety goggles, a respirator and protective gloves. Ensure adequate ventilation. Keep out of reach of children. Pressurised container: do not pierce or break, even after use.

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