INSOLA
INNOVATIVE SOLUTIONS & APPLICATIONS

Technical data sheet

Insola Thermo Spray 2D spray-applied polyurethane thermal insulation for professional use with a foam gun

Product description:

Ready-to-use, one-component, self-expanding polyurethane thermal insulation foam, applied using a special spray nozzle fitted to the tip of a foam gun. Suitable for insulating horizontal and vertical surfaces, as well as uneven or curved surfaces and hard-to-reach areas where conventional insulation materials are difficult to install. Helps reduce thermal bridging and prevents condensation.

Base	Polyurethane
Curing mechanism	Polymerisation on exposure to atmospheric moisture.
Skin formation time	15 min
Full curing time	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/m²
Closed-cell content	80%
Sound reduction index Rst, w	60 dB
Temperature resistance of cured foam	(- 60 °C …+ 110 °C)
Yield (*) (3 cm layer)	Up to 2 m²

(*) Measured at 20 °C and 65% relative humidity. Values may vary with ambient conditions, such as temperature and humidity, and the surfaces to which the product is applied.

Areas of application:

Suitable for thermal and acoustic insulation on all types of surfaces. Ideal for confined or hard-to-reach areas where conventional insulation materials are difficult to install. Suitable for insulating attics, balconies, bathtubs, garages, basements, tanks and reservoirs. Can be used around lintels, doors, ceilings and other building elements prone to thermal bridging. Suitable for use on common building materials, including concrete, masonry, stone, wood, EPS, plasterboard, most metals, gypsum boards and rigid PVC. Does not adhere to PE, PP, PTFE or silicone. A preliminary adhesion and compatibility test is recommended on each surface.

Advantages:

- Seals all hard-to-reach areas in buildings
- Reduces energy consumption. Provides highly effective thermal insulation.
- Provides an acoustic barrier for highly effective sound insulation
- Effectively protects buildings against draughts and moisture
- Remains flexible and does not crumble
- Water-resistant and impermeable to water
- Suitable for uneven surfaces and hard-to-reach areas
- Prevents condensation build-up
- Helps prevent thermal bridging

Application conditions:

Ambient temperature during application: +5 °C to +35 °C. For best results, apply at +20 °C. Can temperature during application: +18 °C to +25 °C, ideally +20 °C. Surfaces must be free from dust, loose particles and grease. Cured foam can be painted with solvent-free paints.

Application instructions:

Fit the spray nozzle onto the tip of the foam gun. Shake the aerosol can vigorously at least 20 times. With the can upright, position it in the gun adapter. Hold the gun handle with one hand and screw the can onto the gun with the other. Before attaching the can, make sure the gun is not pointing at anyone. Do not screw the can on upside down or rotate the gun instead of the can. Set the spray nozzle to the required position for vertical or horizontal spraying. Turn the gun's flow adjustment knob to the fully open position. Control the foam output by pressing the trigger. Spray from a distance of approximately 40 cm from the surface. Adjust the distance to suit the required spray width: move closer for narrower areas and further away for wider areas. The foam expands twofold after application. Do not apply a layer thicker than 2.5 cm in a single pass. When applying several layers, wait approximately 30 minutes before applying the next layer. Moisten each layer after application.

Colour:

Peach

Packaging:

1000 ml aerosol can, net contents 750 ml, 12 cans per box.

Shelf life in unopened packaging: 24 months.

Storage:

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

Safety precautions:

The product is flammable. Protect from excessive heat 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 puncture or break open, even after use.

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