INSOLA
INNOVATIVE SOLUTIONS & APPLICATIONS

Technical data sheet

Polynor polyurethane thermal insulation for straw

Product description:

Sprayable, ready-to-use one-component, self-expanding polyurethane thermal insulation foam with a special nozzle for the foam gun application. Both horizontal and vertical surfaces can be covered easily. It is also ideal for insulating uneven or curved surfaces, hard-to-reach areas where traditional insulation methods are difficult to apply. Helps reduce thermal bridges and prevents condensation.

Base	Polyurethane
Curing system	Polymerisation due humidity
Surface formation time	<15 min
Fully cured	24 hours
Thermal conductivity	0.030 W/(m*k)
Water vapour resistance factor μ	16,4-18,5
Water absorption (short-term, partial immersion)	0,11 kg/m²
Share of closed cells	80%
Sound reduction index Rst, w	60 dB
Temperature resistance of fully cured product	(-60ºC … +110ºC)
Yield (*) (3 cm layer)	Up to 2 m²

(*) Measured at 20 °C / 65% relative humidity. The figures may vary depending on environmental factors such as temperature, humidity, etc., as well as the surfaces to be bonded.

Areas of application:

Suitable for use on all types of surfaces to provide heat and sound insulation. Sprayable thermal insulation is ideal for use in difficult, hard-to-reach areas where traditional insulation is complicated to apply. Also, for thermal insulation of attics, balconies, baths, garages, basements, tanks and containers. Used in lintels, doors, ceilings and other areas of building construction where cold bridges tend to form. Suitable for insulating all common building materials (such as concrete, masonry, stone, wood, EPS, gypsum board, most metals, gypsum boards, rigid PVC, etc.). No adhesion to PE, PP, PTFE and silicone. We recommend a preliminary adhesion and compatibility test for each surface.

Advantages:

- Seals all hard-to-reach places in construction
- Savings energy costs. Extremely effective thermal insulation is guaranteed.
- Acoustic barrier. Extremely effective sound insulation is provided
- Effective protection of the building from drafts and moisture is ensured.
- Remains elastic, does not collapse
- Waterproof (water resistant)
- Suitable for uneven and hard-to-reach surfaces
- Prevents the accumulation of condensate
- Helps prevent cold bridges

Application conditions:

The air temperature during use can be +5°C to +35°C, although the best results are obtained at +20°C. The temperature of the can during application must be +18°C to +25°C, although the best result is obtained at a temperature of +20°C. Dust, loose particles and oils must be removed from the application surface. The fully cured foam can be painted with non-solvents paints.

Application instructions:

Shake the can well at least 20 times. Screw the straw to the valve. Before screwing on the can, make sure that the foam straw is not pointed at persons. Do not screw in the inverted aerosol dispenser or rotate the on the dispenser. Adjust the nozzle to the required position (depending on the vertical or horizontal spray pattern). Foam output is controlled by pressing on the trigger of the straw. Spray the foam at a distance of about 40 cm to the surface. The exact distance is chosen according to the width of the surface to be sprayed – the narrower the area the shorter the distance and vice versa. Keep in mind that the sprayed foam doubles in size. Do not spray layers that are thicker than 2.5 cm at a time. If more layers are needed, wait about 30 minutes before spraying the next layer. Moisten after each layer.

Colour:

Light pink (peach).

Packaging:

1000 ml aerosol spray, content 750 ml, 12 pcs. in a box.

Shelf life before opening the package: 24 months

Storage:

The bottles should be stored and transported in an upright position. Store in a dry, cool place at a temperature of +5°C to +35°C. Aerosols should not be stored at a temperature above +50°C or in direct sunlight.

Safety requirements:

This product is flammable. Protect from overheating and keep away from sources of ignition. Avoid direct sunlight. Contains isocyanates. May produce an allergic reaction. Wear safety goggles, gloves, and respirator. Ensure adequate ventilation. Keep out of the reach of children. The can is under pressure. Do not pierce or damage it, even after use.

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