

Sprayable Insulation Foam Genius

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Technical data

Basis	Polyurethane
Consistency	Stable foam, thixotropic
Curing system	Moisture curing
Skin Formation (EN 17333-3)	15 min
Full curing	24 hours
Free foamed density (EN 17333-1)	Ca. 25 kg/m ³
Thermal conductivity (EN 17333-5)	0,036 W/m.K
Application temperature	5 °C → 30 °C
Yield	700 ml yields up to 1 m ² (ca. 2 cm layer after curing)
Expansion during curing (EN 17333-2)	Ca. 83 %
Temperature resistance**	-40 °C till +90 °C (cured)

** This information relates to fully cured product.

Product description

Sprayable Insulation Foam Genius is a ready-to-use, single component, self-expanding polyurethane sprayfoam for insulating all types of substrates to improve thermal insulation and reduce the risk of thermal bridges. It has been fitted with the unique patented Genius Gun - adaptor system for maximum comfort during application. Sprayable Insulation Foam Genius can be used with accompanying spray nozzle to use in horizontal and vertical direction to level uneven and hard to reach surfaces.

Properties

- Excellent initial bonding onto surface
- Good adhesion on all surfaces (except PE, PP and PTFE).
- One foam can of 700 ml covers up to 1 m² of insulation (ca. 2 cm layer after curing)
- Suitable for vertical applications
- Can be applied at temperatures between +5 °C and +30 °C
- Excellent thermal insulation, thermal conductivity of 0,036 W/m.K
- Reduces the risk of thermal bridges
- Remains flexible, does not become brittle.
- Levels uneven and hard to reach surfaces
- Sealing all hard to reach parts in construction applications
- Less than 0,1% free diisocyanate content
- Solvent free

- Resistant to a variety of solvents, paints and chemicals.
- Does not age or rot, mould and mildew resistant, but not UV resistant
- Water resistant (not watertight)
- Prevents condensation

Applications

- Covering of all types of surfaces to improve thermal insulation.
- Insulating all inconvenient or hard to reach places in construction applications, where the use of traditional insulation materials is more difficult.
- Suitable as insulation on all usual building substrates (such as concrete, masonry, stone, wood, EPS, drywall, most metal sheeting, gypsum boards, hard PVC, etc).
- Sealing of doors, lintels, walls and other construction parts to reduce the risk of thermal bridges.
- Insulating pipes, attics, cellars, balconies, garages, tanks and vessels.

Packaging

Colour: white

Packaging: 700 ml aerosol (net)

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Shelf life

12 months unopened and stored in dry and cool conditions (Between 5 and 25 °C), Cans must be stored upright to prevent blockage of the valve. Once opened, keep container tightly closed and use within a short period.

Substrates

All usual substrates such as concrete, masonry, stone, drywall, wood, cold bituminous thick coatings, sand or slate surfaced bituminous sheeting, polystyrene (EPS), polyurethane and phenol resin foam, most corrosion protected metal sheeting, gas concrete, particle board, plasterboard, gypsum fibre board, fibre cement, hard PVC and emulsion paints. Surfaces must be stable, clean, without bubbles and free of separating agents such as talcum, grease, oils, etc. Suitable are building moist, but not wet (water film, standing water) substrates. Does not adhere to PE, PP, PTFE and silicone. We always recommend a preliminary test of the substrates to check for suitability with regard to adhesion and compatibility.

Application method

Prior to using the product, cover all adjacent areas for protection against soiling. Good ventilation must be ensured for indoor use. Shake the aerosol can for at least 20 seconds. Open the cover and fold the tube horizontally. The application nozzle is already attached on the tip of the Soudamax adapter. Surface should be free from grease and dust. Moisten surfaces with a water sprayer prior to application. For non-conventional substrates a preliminary adhesion test is recommended. Rotate the nozzle as needed (for spraying in vertical or horizontal direction). Press completely on the trigger of the Genius adapter for optimal foam output. Apply the foam from a distance of 30-40 cm from the surface. The application distance will determine the width of the application area. The foam will expand twice the thickness of what is sprayed out. Do not apply more than three layers of around 1 cm at once, or do not exceed a thickness of 2,5 cm at once. If more layers are needed, wait for approx. 30 minutes to apply the next layer. Moisten after each layer. For storage: remove the nozzle from the Soudamax adapter and clean the nozzle, detach the bung and screw the bung on the tip of Soudamax adapter. Repeat shaking of the can after periods of non-use. Fresh foam can be removed using Soudal Gun & Foamcleaner or acetone. Prior to using the Gun & Foamcleaner, test whether surfaces are affected or not. Especially plastics and lacquer or paint layers can be sensitive to this. Cured foam can only be removed mechanically or with Soudal PU Remover.

Can temperature: +5 °C - 25 °C (if required, bring the can to the optimal temperature by placing in cool or warm water)

Ambient temperature: +5 °C - 30 °C.

Surface temperature: +5 °C - 35 °C

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Health- and Safety Recommendations

Take the usual labour hygiene into account. Always wear gloves and goggles. Use only in well ventilated areas. Remove cured foam mechanically. Never burn away. Cans should only be transported safely and securely. Consult label and material safety data sheet for more information.

Remarks

- Not UV-resistant, cured polyurethane foam must be protected against UV exposure by overpainting, sealing with sealants (e.g. Silicones, polyurethane, acrylic or hybrid polymer) or covering.
- Cleaning: With Soudal GUN and FOAM cleaner before curing, after curing only to be removed mechanically with the possible use of PU remover.
- Spray nozzle is not allowed to be used on other PU foam products.

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