SOUDAL

Technical datasheet

Sprayable Foam Genius

Product description

Sprayable 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 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)
- Genius Gun - adaptor for maximum comfort during application
- 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 surfaces
- Sealing all hard to reach parts in construction applications
- Less than 0,1% free monomeric 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.

Technical data

Base		Polyurethane (Low Monomeric)
Consistency		Stable foam, thixotropic
Curing system		Moisture curing
Skin formation	EN 17333-3	15 minutes
Thermal conductivity (λ)	EN 17333-5	0,036 W/m.K
Sound insulation	EN ISO 717-1	58 dB
Density	EN 17333-1	ca. 25 kg/m³

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Expansion during curing	EN 17333-2	ca. 83%
Temperature resistance		-40°C → +90°C
Yield		700 ml yields up to 1 m² (ca. 2 cm layer after curing)
Curing time		24 hours

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  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.
- Substrate types
  All usual substrates such as concrete, masonry, stone, plaster, wood, cold bituminous thick coatings, sand or slate surfaced bituminous sheeting, polystyrene, polyurethane and phenol resin foam, corrosion protected steel sheeting, fibre cement, gas concrete, particle board, plasterboard, gypsum fiberboard, fibre cement, hard PVC and emulsion paints. We always recommend a preliminary test of the substrates to check for suitability with regard to adhesion and compatibility.
- Not suitable substrates
  PE PP PTFE (Teflon®) silicone

Application method

- 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. 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 to +25 °C (Optimal +15 °C to +25 °C). If required, slowly bring the can to the optimal temperature by placing in cool or warm water.
- Ambient temperature
  +5 °C to +35 °C
- Surface temperature
  +5 °C to +35 °C
- Cleaning method
  With Soudal Gun & Foamcleaner or Swipex prior to curing, subsequently with PU Remover or remove mechanically.

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Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Always wear gloves and goggles.
Remove cured foam mechanically. Never burn away.
Use only in well-ventilated areas.

Packaging/Logistics

Colour: White
Packaging: 700 ml aerosol (net)
Shelf life: 12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Cans must be stored upright to prevent blockage of spray valve, Once opened, keep container tightly closed and use within a short period.

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.
- Spray nozzle is not allowed to be used on other PU foam products.

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