

26 June 2024

## GAP FILLING EXPANDING FOAM **GENIUS GUN**

### Technical Data

Basis	Polyurethane
Consistency	Stable foam, thixotropic
Curing system	Moisture curing
Skin formation* (EN 17333-3)	7 min
Cutting time (EN 17333-3)	25 min
Free foamed density (EN 17333-1)	Ca. 25 kg/m <sup>3</sup>
Sound insulation (EN ISO 717-1)	58 dB
Thermal conductivity (λ) (EN 12667)	0.037 W/m.K
Box Yield (EN 17333-1)	500 ml yields ca. 19 l of foam 750 ml yields ca. 29 l of foam
Joint Yield (EN 17333-1)	500 ml yields ca. 17 m of foam 750 ml yields ca. 25 m of foam
Shrinkage after curing (EN 17333-2)	< 3 %
Expansion after curing (EN 17333-2)	< 1 %
Expansion during curing (EN 17333-2)	Ca. 117 %
Compressive strength (EN 17333-4)	Ca. 38 kPa
Shear strength (EN 17333-4)	Ca. 54 kPa
Temperature resistance**	-20 °C → +90 °C, +120 °C (max 1 hr)
Application temperature	
Can temperature	5 °C → 30 °C
Ambient temperature	5 °C → 30 °C
Surface temperature	5 °C → 35 °C

\* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

\*\* This information relates to fully cured product

### Product description

Gap Filling Expanding Foam (GENIUS GUN) is a one-component, self-expanding, ready to use PU-foam, which contains HCFC- and CFC-free propellants who are not harmful for the ozone layer. It has been fitted with the unique patented Genius Gun - adaptor system for maximum comfort during application.

### Properties

- Excellent stability (no shrinkage or post expansion)
- High filling capacity
- Good adhesion on all surfaces (except PE, PP and PTFE).
- High insulation value, thermal and acoustic
- Very good bonding properties.
- Elastic and compressible.
- Freon free (not harmless to ozone layer and greenhouse effect)
- Easy to dose

- Fast curing
- Very precise to dose.
- Not UV-resistant
- Reusable up to 6 weeks

### Applications

- All foam applications in static and not static joints.
- Filling of cavities.
- Sealing of all openings in roof constructions.
- Apply of a sound absorbing layer.
- Improving thermal isolation in cooling systems.
- Insulating around pipes and electrical wiring.

### Packaging

Colour: champagne

Packaging: 500 ml and 750 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

At least 12 months in original, unopened packaging in a cool and dry storage place with temperature between +5°C and +25°C. Upright storage is recommended.

### Substrates

*Nature:* clean, free of dust and grease, dry

*Surface preparation:* For optimal adhesion, we recommend to follow a pretreatment procedure.

Moisten surfaces with a water sprayer prior to application

We recommend a preliminary adhesion and compatibility test on every surface.

### Application method

Refer to the current Technical Data Sheet on our website prior to use.

Shake the aerosol can for at least 20 seconds. Open the cover and fold the tube horizontally. Moisten surfaces with a water sprayer prior to application. For non-conventional substrates a preliminary adhesion test is recommended.

Fill holes and cavities for 1/3, as the foam will expand. Repeat shaking regularly during application. If you have to work in layers repeat moistening after each layer. For storage: detach the bung, close nozzle with bung, close the cap and store can upright.

*Cleaning:* Clean with Soudal Gun & Foam cleaner or acetone immediately after use. Cured Gap Filling Expanding Foam Genius Gun can be removed mechanically or with PU Foam Remover. Prior to using the Gun & Foam cleaner, test whether surfaces are affected or not. Especially plastics and lacquer or paint layers can be sensitive to this.

*Repair:* With the same material.

### Health- and Safety Recommendations

Take the usual labour hygiene into account. Always wear gloves and goggles. Remove cured foam mechanically. Never burn away.

Consult label and safety data sheet (SDS) for more information. When vaporizing (for example with a

compressor), additional security measures will be required. Use only in well-ventilated areas.

### Remarks

- Moisten surfaces with a water sprayer prior to application.
- If you have to work in layers repeat moistening after each layer. For not common surfaces we recommend an adhesion test.

### Environmental clauses

#### Leed regulation:

Gap Filling Expanding Foam Genius Gun conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168.

Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

### Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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