



Flexifoam Gun

Product description

Flexifoam Gun is a one-component, moisture-curing, self-expanding, ready to use polyurethane foam. The product has elastic properties, which allow the foam to follow the movement of the joint and keep its insulation properties for many years. Because of the Duravalve, the optimal yield remains over the entire shelf life, even when stored or transported lying down.

Properties

- 3 times more flexible than standard PU foam
- Airtight (see IFT-report)
- Water vapour open
- 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
- Very precise to dose
- Low expansion
- Elastic
- Compressible
- Fast curing
- Not UV-resistant



Applications

- All foam applications in static and not static joints.
- Filling and insulating of mechanically fixed window- and doorframes.
- Filling of cavities.
- Sealing of all openings in roof constructions.
- Improving thermal isolation in cooling systems.
- Filling and insulating around pipes and electrical wiring.

Technical data

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|----------------------------------------------------|--------------|-----------------------------------------------------------------|
| Base | | Polyurethane |
| Consistency | | Stable foam, thixotropic |
| Curing system | | Moisture curing |
| Skin formation | EN 17333-3 | 7 minutes |
| Cutting time | EN 17333-3 | 40 minutes |
| Thermal conductivity (λ) | EN 12667 | 0,035 W/m.K |
| Sound insulation | EN ISO 717-1 | 62 dB |
| Density | EN 17333-1 | ca. 25 kg/m ³ |
| Air permeability coefficient (α) | EN 12114 | < 0,1 m ² /(h.m.(daPa)n) |
| Water vapour diffusion resistance factor (μ) | EN ISO 12572 | 20 |
| Joint yield | EN 17333-1 | 500 ml yields ca. 13 m of foam 750 ml yields ca. 21 m of foam |



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| Box yield | EN 17333-1 | 500 ml yields ca. 19 l of foam 750 ml yields ca. 30 l of foam |
| Shrinkage after curing | EN 17333-2 | < 5% |
| Expansion after curing | EN 17333-2 | < 5% |
| Expansion during curing | EN 17333-2 | ca. 75% |
| Percentage closed cells | ISO 4590 | ca. 3% |
| Compression strength | EN 17333-4 | ca. 15 kPa |
| Shear strength | EN 17333-4 | ca. 25 kPa |
| Tensile strength | EN 17333-4 | ca. 42 kPa |
| Elongation at Fmax | EN 17333-4 | ca. 25% |
| Water absorption | ISO 29767 | ca. 0,28 kg/m ² |
| Temperature resistance | | -40°C → +90°C |
| Permanent deformation under pressure | ISO 1856 | ca. 6% |

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

Application method

- Application method
Shake the aerosol can for at least 20 seconds. Fit the gun on the 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. Fill holes and cavities for 2/3, as the foam will expand. Repeat shaking regularly during application. If you have to work in layers repeat moistening after each layer. 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 +30 °C
- Ambient temperature
-10 °C to +35 °C
- Surface temperature
-10 °C to +35 °C

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.
When vaporizing (for example with a compressor), additional security measures will be required.
Use only in well-ventilated areas.

Packaging/Logistics

Colour: Blue
Packaging: Various sizes available. Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 24 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

Standards and certificates

- GEV EMICODE: EC1 PLUS - very low emission



Flexifoam Gun

- M1 Emission classification of building materials
- Building Material Class E (EN 13501-1)
- Thermal conductivity (EN 12667)
- Sound insulation (EN ISO 717-1)
- Air permeability (EN 12114)
- Water vapor permeability (EN ISO 12572)
- Socotec France
- RAL certified according to RAL-GZ 711
- IFT certified according to QM360

Environmental clauses

- Leed regulation: Flexifoam 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.

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.
- 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.
- The use of a foam gun offers the possibility to dose the foam very precisely.

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