

Flexifoam Gun

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Technical data

Basis	Polyurethane
Consistency	Stable foam, thixotropic
Curing system	Moisture curing
Skin Formation (EN 17333-3)	7 min
Cutting Time (EN 17333-3)	40 min
Density	Ca. 25 kg/m ³
Air permeability (DIN 18542)	$\alpha < 0,1 \text{ m}^3/[\text{h.m.}(\text{daPa})^2/3]$
Water vapor permeability (DIN EN ISO 12572)	$\mu = 20$
Sound insulation (EN ISO 717-1)	62 dB
Thermal conductivity (λ) (EN 12667)	0,035 W/m.K
Box Yield (EN 17333-1)	500 ml yields ca. 19 l of foam 750 ml yields ca. 30 l of foam
Joint Yield (EN 17333-1)	500 ml yields ca. 13 m of foam 750 ml yields ca. 21 m 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 (ISO4590)	Ca. 3 %
Permanent deformation under pressure (ISO 1856) 50% compression 22h after 1 day recovery	Ca. 6 %
Compressive 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. 25,1 %
Water absorption (EN 29767)	Ca. 0,28 kg/m ²
Temperature resistance**	-40 °C till +90 °C (cured) 120 °C (max 1 hour)

** This information relates to fully cured product.

Product description

Flexifoam Gun is a one-component, self-expanding, ready to use polyurethane foam with elastic properties, which allow the foam to follow the movement of the joint and keep its insulation properties for many years. Because of the Duravalue, the optimal yield remains over the entire shelf life, even when stored or transported lying down. Flexifoam Gun is filled with HCFC- and CFC-free propellants which are not harmful for the ozon layer.

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 and compressible.
- Freon free (not harmless to ozone layer and greenhouse effect)
- Fast curing
- Not UV-resistant

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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Applications

- All foam applications in static and not static joints.
- Installing of window and door frames.
- Filling of cavities.
- Sealing of all openings in roof constructions.
- Apply of a sound absorbing layer.
- Improving thermal isolation in cooling systems.

Packaging

Colour: blue*Packaging:* 750 ml aerosol (net)

Shelf life

24 months unopened and stored in dry and cool conditions (Between 5 and 25 °C), Upright storage is recommended.

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 65 %, 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 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 - 30 °C

Ambient temperature: -10 °C - 35 °C

Surface Temperature: -10 °C - 35 °C

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 material safety data sheet for more information. When vaporizing (for example with a compressor), additional security measures will be required. Use only in well ventilated areas.

Remarks

- The use of a foam gun offers the possibility to dose the foam very precisely.
- Slightly moistening of the surface in hollow spaces optimizes curing, good adhesion and yield.

Standards and certificates

- Baustoffklasse E (DIN EN 13501-1) - Prüfzeugnis P-SAC 02/III-164 (MFPA Leipzig)
- Thermal conductivity (DIN 52612) - PB 070598.1 Hu (MPA Bau Hannover)
- Air permeability (DIN 18452) - PB 105334285 (IFT Rosenheim)
- Water vapor permeability (DIN EN ISO 12572) - PB 50933428 (IFT Rosenheim)
- Acoustical insulation (EN ISO 717-1) - PB Z0910-K05-04 (IFT Rosenheim)
- SOCOTEC n° FAC 3032/1
- IFT certified, Reg. Nr. 7031589
- RAL certified, RAL-GZ 711/4 – SO-40-01

Environmental clauses

Leed regulation:

Flexifoam Gun conforms to the requirements of LEED. Low -Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Meets USGBC LEED requirements v4.1: Low-Emitting Materials - Adhesives & Sealants regarding VOC content.

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