SOUDAL

Technical datasheet

Soudafoam Gun Win. & Door SWS

Product description

Soudafoam Gun Win. & Door SWS 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
- 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
- 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

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/m³
Air permeability coefficient (a)	EN 12114	< 0,1 m³/(h.m.(daPa)n)
Water vapour diffusion resistance factor (μ)	EN ISO 12572	20
Joint yield	EN 17333-1	750 ml yields ca. 21 m of foam
Box yield		750 ml yields ca. 30 l of foam
Shrinkage after curing	EN 17333-2	< 5%

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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/m²
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: 750 ml aerosol (net)
Shelf life: 24 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C

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.

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- 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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