

Soudafoam 1K

Description

Soudafoam 1K is a one-component, moisture-curing, self-expanding, ready to use polyurethane foam.

Properties

- Excellent stability (no shrinkage post expansion)
- High filling capacity
- Good adhesion on all surfaces (except PE, PP and PTFE)
- High insulation value, thermal and acoustic
- Freon free (Does not harm the ozone layer)

Applications

- Installing of window and door frames
- Filling of cavities
- Sealing of all openings in roof constructions
- Apply of an acoustic baffle
- Improving thermal isolation in cooling systems
- Filling around pipes/pipe penetrations



Technical data

Base		Polyurethane
Consistency		Stable foam, thixotropic
Curing system		Moisture curing
Skin formation time (min)*		10
Cutting time*	EN 17333-3	35
Free foamed density (kg/m ³)	EN 17333-1	ca. 29
Box yield	EN 17333-1	300 ml yields ca. 10L of foam 500 ml yields ca. 17L of foam 750 ml yields ca. 28L of foam
Joint yield	EN 17333-1	300 ml yields ca. 8m of foam 500 ml yields ca. 13m of foam 750 ml yields ca. 20m of foam
Shrinkage after curing (%)	EN 17333-2	< 1
Thermal conductivity (λ)	EN 12667	0.035 (W/m.K)
Expansion during curing (%)	EN 17333-2	167
Expansion after curing (%)	EN 1733.3-2	None
Percentage closed cells (%)	ISO 4590	ca. 7
Compressive strength (kPa)**	EN 17333-4	ca. 22
Shear strength (kPa)**	EN 17333-4	ca. 39
Tensile strength (kPa)**	EN 17333-4	ca. 80
Temperature resistance (°C)**		-40 to +90 (cured)

Footnote: *These values may vary depending on environmental factors such as temperature, moisture and the type of substrate. **This information relates to fully cured products.

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Application method

■ Application method

Shake the aerosol can for at least 20 seconds. Put the adapter on the valve. Moisten surfaces with a water sprayer prior to application. For non-conventional substrates a preliminary adhesion test is recommended.

Remove pressure from the applicator to stop. Fill holes and cavities for 1/3rd, as the foam will expand. Repeat shaking regularly during application. If you have to work in layers, repeat moistening after each layer.

■ Cleaning method

Fresh foam can be removed using Soudal Gun & Foam Cleaner or acetone. Prior to using the Gun and Foam Cleaner, 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.

■ Repair method

Repair with the same material.

Can temperature: +5°C to +30°C

Ambient temperature: +5°C to +30°C

Surface temperature: +5°C to +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 datasheet for more information. When vaporizing (for example with a compressor), additional security measures will be required. Use only in well-ventilated areas.

Packaging/Logistics

Colour: Champagne

Packaging: 750ml aerosol

Shelf life: 12 months from the date of production. The product must be stored in its original, undamaged, and sealed packaging under dry conditions, protected from direct sunlight, and at temperatures between +5°C and +25°C. Upright storage is recommended.

Remarks

- Moisten surfaces with a water sprayer prior to application.
- If you must work in layers repeat moistening after each layer.
- For non-common surfaces we recommend an adhesion test.
- Not UV-resistant, cured polyurethane foam must be protected against UV by overpainting, sealing with sealants (e.g. silicones, polyurethane, acrylic or hybrid polymer) or covering.

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