SOUDAL

Technical Data Sheet

Flexible Insulation Foam

Technical data

Basis	Polyurethane
Consistancy	Stable foam, thixotropic
Curing system	Moisture curing
Skin Formation (FEICA TM 1014)	7 min
Cutting Time (FEICA TM 1005)	55 min
Density**	Ca. 25 kg/m³
Air permeability (DIN 18542)	a < 0,1 m³/[h.m.(daPa)²/³]
Water vapor permeability (DIN EN ISO 12572)	μ = 20
Sound insulation (EN ISO 717-1)	60 dB
Insulation factor (DIN52612)	34,5 mW/m.K
Curing time	1 hour for a 30 mm bead at 20 °C
Box Yield (FEICA TM 1003)	750 ml yields ca. 29 l of foam
Joint Yield (FEICA TM 1002)	750 ml yields ca. 22 m of foam
Shrinkage after curing (FEICA TM 1004)	< 5 %
Expansion after curing (FEICA TM 1004)	< 5 %
Cellular Structure	Fine-celled
Fire rating (DIN4102)	B2
Permanent deformation under pressure (ISO 1856) 50% compression 22h after 1 day recovery	Ca. 6 %
Compressive strength (FEICA TM 1011)	Ca. 1,5 N/cm²
Shear strength (FEICA TM 1012)	Ca. 2,5 N/cm²
Tensile strength (DIN 53423)	Ca. 5,0 N/cm²
Elongation at break (ISO 37)**	30 %
Water absorption	1 % volume
Temperature resistance**	-40 °C till +90 °C (cured) 120 °C (max 1 hour)

Soudal NV uses test methods approved by FEICA designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance. FEICA OCF test methods are available at: http://www.feica.com/our-industry/pu-foam-technology-ocf . FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers. Further information at: www.feica.eu

Product description

Flexible Insulation Foam 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. It has been fitted with the unique patented Genius Gun - adaptor system for maximum comfort during application.

Properties

- 3 times more flexible then 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

Flexible Insulation Foam

- Not UV-resistant

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
18 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. Open the cover and fold the tube horizontally. 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 1/3, 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 or acetone. Cured foam can only be removed mechanically or with Soudal PU-Remover.
Re-use: Before re-using, unscrew the soudamax adapter from the tube. Point the straw towards the ground with the can up straight and apply the trigger of the genius gun once or twice before screwing the soudamax adapter back on the tube.

Can temperature: +5 °C - 30 °C
Ambient temperature: +5 °C - 30 °C.
Surface temperature: +5 °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.

Remarks
- Slightly moistening of the surface in hollow spaces optimizes curing, good adhesion and yield.

Standards and certificates
- Baustoffklasse B2 (DIN 4102-1) - Prüfzeugnis P-SAC 02/III-164 (MFPA Leipzig)
- Acoustical insulation (EN ISO 717-1) - PB 16733428 (IFT Rosenheim)
- 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)