Soudal Low Expansion Manual Foam

Technical data

Basis	Polyurethane
Consistency	Stable foam, thixotropic
Curing system	Moisture curing
Skin Formation (EN 17333-3)	6 min
Cutting Time (EN 17333-3)	20 min
Free foamed density (EN 17333-1)	Ca. 20 kg/m³
Sound insulation (EN ISO 717-1)	58 dB
Thermal conductivity (EN 17333-5)	37,0 mW/m.K
Thermal conductivity (λ) (EN 12667)	0,035 W/m.K
Box Yield (EN 17333-1)	750 ml yields ca. 32 l of foam
Joint Yield (EN 17333-1)	750 ml yields ca. 28 m of foam
Shrinkage after curing (EN 17333-2)	< 1 %
Expansion after curing (EN 17333-2)	None
Expansion during curing (EN 17333-2)	Ca. 111 %
Compressive strength (EN 17333-4)	Ca. 23 kPa
Shear strength (EN 17333-4)	Ca. 38 kPa
Tensile Strength (EN 17333-4)	Ca. 79 kPa
Elongation at Fmax (EN 17333-4)	Ca. 20,6 %
Temperature resistance**	-40 °C till +90 °C (cured)

** This information relates to fully cured product.

Product description

Soudal Low Expansion Manual Foam is a one-component, self-expanding, ready to use polyurethane foam with a combination of a special formulation and the Soudal Mega Adapter to increase the yield of cured foam with almost no expansion after extrusion. Soudal Low Expansion Manual Foam is filled with HCFC- and CFC-free propellants which are not harmful for the ozon layer.

Properties

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

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.
- All foam applications in static joints.

Packaging

Colour: champagne
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.

Remark: This technical data sheet replaces al 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.

Soudal Low Expansion Manual Foam

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 1/2, 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: +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. Use only in well ventilated areas.

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.

Remark: This technical data sheet replaces al 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.