

Code	Description	Size	Colour
175596	Soudal One Shot Expanding Foam	150ml	Champagne

1. Description

Soudal One Shot Expanding Foam is a one-component, self-expanding, ready to use polyurethane foam. CFC Free Propellants. It has been fitted with the unique "One Shot" system for fast use and maximum comfort during application.

2. Characteristics

- Excellent stability (no shrinkage or post-expansion)
- High filling capacity
- "One Shot" system for fast & easy use
- Excellent adhesion on most materials, including Polystyrene (except PE/PP & Teflon)
- High thermal and acoustical isolation values
- Excellent bonding and installing capacity
- It uses CFC-free propellants which are completely harmless to the ozone layer.
- Excellent mounting capacity
- Remains waterproof providing the integrity of the skin of the cured foam is maintained
- Draft Proof and Pest Resistant (Note: Rodents and persistent boring pests may over time make their way through the product)

3. Technical Data

Base:	Polyurethane
Consistency:	Stable Foam
Curing System:	Moisture-cure
Skin formation: (20°C/65 % R.H.) (EN17333-3)	Ca 8.5 minutes
Cutting Time: (EN17333-3)	65 minutes
Density: (EN17333-1)	Ca. 40kg/m ³
Acoustic Installation: (EN ISO717-1)	58 dB
Insulator Factor: (EN17333-5)	35.4 mW/m.K
Yield: (EN17333-1)	150ml yields ca. 4 litres of foam
Shrinkage: (after cure) (EN17333-2)	<5%
Expansion after cure: (EN17333-2)	None
Expansion during cure: (EN17333-2)	Ca. 135%
Cellular Structure (ISO4590)	Ca. 70% closed cells
Compressive Strength: (EN17333-4)	Ca. 37 kPa
Shear Strength: (EN17333-4)	Ca. 43 kPa
Tensile Strength: (EN17333-4)	Ca. 78 kPa
Elongation at Fmax: (EN17333-4)	Ca. 22,7%
Water Absorption: (EN29767)	Ca. 0,20 kg/m ²
Temperature Resistance:	-40°C till +90°C (cured)

*This varies according to ambient conditions such as temperature, humidity, substrate etc

4. Applications

- Filling of cavities.
- Sealing of all openings in roof constructions.
- Apply of an acoustic baffle
- Improving thermal isolation in cooling systems.
- Insulation of window- and door frames and window-sills
- Insulating around pipes and electrical wiring.

5. Packaging

150ml Aerosol

6. Shelf Life

18 months in unopened packaging in a dry and cool storage place. Containers are stamped with a best before date. Upright storage is recommended.

7. Building Product Information

Manufactured By Soudal NV
Distributed By Soudal Ltd

Relevant Building Code Clauses

- Clause B2 DURABILITY: Performance B2.3.1 (b) 15 years
- Clause E2 EXTERNAL MOISTURE: Performance E2.3.2.
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1.

Contribution to compliance With NZBC

Performance B2.3.1 (b): Assessment of durability to meet the NZBC is based on difficulty of access and replacement of the air seal, and the ability to detect failure of the air seal both during normal use and maintenance of the building when used as Air-seals (i.e. in dry, interior environments where the product is inaccessible, and completely sheltered from exposure to sunlight, chemicals, solvents and temperature extremes), they will remain serviceable for at least 15 years.

Performance E2.3.2: Complying with the requirements of NZBC Acceptable Solution E2/AS1 when installed in accordance with the design. Soudal maintains manufacturing and production records within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 1999.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's product installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Soudal Technical Data sheet and product Safety Data Sheet, soudal.co.nz for further information if required.

8. Application Instructions

Surfaces

Type: Various porous surfaces such as wood, concrete, stone and other materials commonly used in construction. Not suitable for polyethylene and polypropylene

State: Clean, dry, free of grease and loose particles.

Pre-treatment: Moisture in the air or the substrates will cure the adhesive, which will foam slightly. Slightly moistening the substrates will speed up the cure and increase the filling properties of the adhesive. Adhesion to metal batons is determined by surface preparation.

Soudal recommends a preliminary compatibility test.

Application

- Can Temperature: +5°C to +30°C
- Ambient Temperature: +5°C to +30°C
- Surface Temperature: +5°C to +35°C

Clean: Before curing from tools and materials, with Soudal Expanding Foam Cleaner (#175531).
Cured adhesive has to be removed mechanically or with Soudal Expanding Foam Remover.

Repair: With Soudal One Shot Expanding Foam.

Limitations

Soudal One Shot Expanding Foam can be applied to a wide variety of substrates. Due to the fact that specific substrates may differ from Supplier to Supplier, Soudal recommends preliminary compatibility tests. Soudal One Shot Expanding Foam is not UV-Resistant.

Directions for Use

- Shake the aerosol can for at least 20 seconds.
- Remove the clip on the adapter before use.
- Moisten surfaces with a water sprayer prior to application.
- For non-conventional substrates a preliminary adhesion test is recommended.
- Hold the can upside down and fill holes and cavities for 1/3, as the foam will expand.
- Once opened, empty the can within 20 min. Repeat shaking regularly during application.
- If you need to work in layers repeat moistening after each layer.

Limitations

- As some timber treatments contain wax it is recommended that the surface of these timbers is activated with Soudal Surface Activator before application of adhesive.
- For the filling of large volumes apply product in layers and moisten between each layer

Warning: Product has limitations. Please ensure when using this product that you read the instructions carefully. Soudal recommends test prior to use due to the diversity of substrates and applications that are out of Soudal's control. Soudal cannot accept accountability for adverse results.

9. Health and Safety Recommendation

- Apply the usual industrial hygiene.
- Never burn away the PU-Foam
- Please refer to MSDS for more detailed information

Remark

*The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email sales@soudal.co.nz.***

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