



<b>PRODUCT NAME</b>	Soudal Pro Foam Expanding Foam
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<b>PRODUCT DESCRIPTION</b>
Soudal Pro Expanding Foam is a one-component, self-expanding, ready to use polyurethane foam. CFC Free Propellants.



PROPERTIES	APPLICATIONS
<ul style="list-style-type: none"> <li>It uses CFC-free propellants which are completely harmless to the ozone layer.</li> <li>Excellent adhesion on most materials, including Polystyrene (except PE/PP &amp; Teflon)</li> <li>High thermal and acoustical isolation</li> <li>Very good filling capacity</li> <li>Excellent bonding and installing capacity</li> <li>50% less propellant</li> <li>Excellent mounting capacity</li> <li>Remains waterproof providing the integrity of the skin of the cured foam is maintained</li> <li>Draft Proof and Pest Resistant (<u>Note:</u> Rodents and persistent boring pests may over time make their way through the product)</li> </ul>	<ul style="list-style-type: none"> <li>Insulation and sealing. E.g. Windows and Doorframes</li> <li>Filling of cavities around pipes</li> <li>Connecting of isolation materials and roof constructions</li> <li>Creation of a soundproof screen</li> <li>Improving thermal isolation in cooling systems</li> <li>Application of a soundproofing layer on motors</li> <li>Requires correct Soudal Expanding Foam Gun</li> </ul>

TECHNICAL DATA			
<b>Chemical base</b>	Polyurethane	<b>Shrinkage after curing</b>	< 5%
<b>Consistency</b>	Stable Foam	<b>Expansion during curing</b>	< 5%
<b>Curing system</b>	Moisture Cure	<b>Yield</b>	750 ml yields Ca. 26.5 l of foam
<b>Skin formation</b>	Ca. 7 min	<b>Percentage of closed cells</b>	Ca. 70-80%
<b>Density</b>	Ca. 22kg/m <sup>3</sup>	<b>Compressive Strength</b>	Ca. 21 kPa
<b>Curing Time</b>	1 hr for 30mm bead	<b>Shear strength</b>	Ca. 40 kPa
<b>Cutting Time</b>	40 minutes	<b>Water Absorption</b>	Ca 0.27 kg/m <sup>3</sup>
<b>Acoustic Installation</b>	60 dB	<b>Temperature resistance</b>	-40 ° C till +90 ° C (cured)
<b>Thermal conductivity (λ)</b>	32 mW/m.K	<b>Application Temperature</b>	+5°C to +35°C

*Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.*



### H1 insulation R-Value Calculations based on thickness of Soudal Expanding Foam Range

Product	mW/m.K (TDS)	Thickness mm									
		50	60	70	80	90	100	125	140	200	220
Soudal Pro Expanding Foam Aerosol	29.7	1.68	2.02	2.36	2.69	3.03	3.37	4.21	4.71	6.73	7.41
Soudal Pro Expanding Foam Gun Grade	32.0	1.56	1.88	2.19	2.50	2.81	3.13	3.91	4.38	6.25	6.88
Soudal Pro Expanding Foam Click & Fix	32.0	1.56	1.88	2.19	2.50	2.81	3.13	3.91	4.38	6.25	6.88
Soudal Pro Expanding Foam Genius	37.0	1.35	1.62	1.89	2.16	2.43	2.70	3.38	3.78	5.41	5.95
Soudal Flexifoam Click & Fix	35.0	1.43	1.71	2.00	2.29	2.57	2.86	3.57	4.00	5.71	6.29
Soudal Flexifoam Genius	35.0	1.43	1.71	2.00	2.29	2.57	2.86	3.57	4.00	5.71	6.29
Soudafoam SMX Genius	37.0	1.35	1.62	1.89	2.16	2.43	2.70	3.38	3.78	5.41	5.95
Soudafoam FR HY Aerosol	33.0	1.52	1.82	2.12	2.42	2.73	3.03	3.79	4.24	6.06	6.67
Soudafoam FR HY Click & Fix	30.2	1.66	1.99	2.32	2.65	2.98	3.31	4.14	4.64	6.62	7.28
Soudafoam FR HY Gun Grade	30.2	1.66	1.99	2.32	2.65	2.98	3.31	4.14	4.64	6.62	7.28
Soudal One Shot Expanding Foam	35.0	1.43	1.71	2.00	2.29	2.57	2.86	3.57	4.00	5.71	6.29

### PACKAGING / LOGISTICS

- Cannister 750ml, 12 x cannisters per box
- Click & Fix 'Cap' – only available in New Zealand
- Shelf Life: 18 months in unopened packaging in a dry and cool storage place at temperatures between +5°C and +25°C. Always store can with valve pointed upwards.
- Containers are stamped with a best before date.

### BUILDING PRODUCT INFORMATION\*

*\*This section applies to NZ only.*

<b>Manufactured by</b>	Soudal NV	<b>Distributed by</b>	Soudal Ltd
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### 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](http://soudal.co.nz) for further information if required.



APPLICATION	
<b>Surface Types</b>	Various porous surfaces such as wood, concrete, stone and other materials commonly used in construction. Not suitable for polyethylene and polypropylene
<b>State</b>	Clean, dry, free of grease and loose particles.
<b>Pre-treatment</b>	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. An initial wipe with Soudal Surface Activator is required.  Soudal recommends a preliminary compatibility test.
<b>Application Temp</b>	+5°C to +35°C
<b>Directions for use</b>	<ul style="list-style-type: none"> <li>Take can of Soudal Pro Expanding Foam and shake vigorously.</li> <li>Click can on to appropriate adapter of gun.</li> <li>Release the flow adjustment screw lightly and dispense foam immediately to fill the entire gun with foam.</li> <li>The Soudal Pro Expanding Foam is now ready for use.</li> <li>Foam output can be controlled with flow adjustment screw</li> </ul>
<b>After use</b>	<ul style="list-style-type: none"> <li>Always keep a filled can of Soudal Pro Expanding Foam on the gun</li> <li>Tighten the flow adjustment screw completely.</li> <li>Do not empty the gun.</li> <li>Soudal Pro Expanding Foam must always be filled with foam, otherwise foam will cure due to the humidity in the air.</li> <li>Put can away in a vertical position (gun upwards).</li> </ul>
<b>Repeated use</b>	<ul style="list-style-type: none"> <li>Shake the can vigorously once a month (keep hold of the gun).</li> <li>Remove cured foam at the tip of the nozzle carefully with a small, sharp knife.</li> <li>Release the flow adjustment screw lightly and dispense foam immediately until the flow of foam is correct.</li> <li>The Soudal Pro Expanding Foam is now ready for use.</li> <li>Foam output can be controlled with trigger of the gun.</li> </ul>
<b>Replacing of Can</b>	<ul style="list-style-type: none"> <li>Check if the can is empty by dispensing foam in a dustbin until no more foam is released.</li> <li>Take a new can of Soudal Pro Expanding Foam. Shake vigorously.</li> <li>Unscrew the empty can (keep valve opening away from you), remove released foam from adapter and replace the empty can immediately with a new one.</li> <li>Dispense foam immediately to fill the extension tube.</li> </ul>
<b>Cleaning at times of interruption</b>	<ul style="list-style-type: none"> <li>Unscrew the can of Soudal Pro Expanding Foam (keep valve opening away from you).</li> <li>Take a can of Soudal Expanding Foam Cleaner and fit the can on the gun.</li> <li>Pull the trigger again to refill the gun with cleaner.</li> <li>Unscrew the can Soudal Expanding Foam Cleaner.</li> <li>Click the can Soudal Pro Expanding Foam on to the appropriate Soudal Expanding Foam Gun.</li> <li>Pull trigger of the gun again until foam is released and cleaner completely removed.</li> <li>The gun is now ready for use.</li> <li>Note for light use situations we recommend using Soudal Expanding Foam Cleaner prior to installing new can</li> </ul>



Cleaning method	Repair method
Before curing from tools and materials, with Soudal Expanding Foam Cleaner. Cured adhesive has to be removed mechanically.	With Soudal Pro Expanding Foam.

**HEALTH AND SAFETY RECOMMENDATIONS**

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

This technical data sheet replaces all 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. It is general in nature and does not constitute any liability. 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. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application. In every case it is recommended to carry out preliminary experiments. The manufacturer reserves the right to modify products without prior notice.