



PRODUCT NAME	Soudal Pro Foam Expanding Foam Genius
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PRODUCT DESCRIPTION
<p>Soudal Pro Expanding Foam Genius is a ready to use single component self-expanding polyurethane foam. Due to the 'Genius Gun' applicator system the application of PU foam becomes very easy and precise. The extrusion straw can be resealed which makes it possible to continue the application from a partially used canister for several weeks. CFC Free Propellants.</p>



PROPERTIES	APPLICATIONS
<ul style="list-style-type: none"> Excellent form stability – no shrink, no post expansion Excellent filling characteristics Excellent adhesion to all building materials (except PE, PP and PTFE) High insulation values, both thermal and acoustical Excellent installation performance 	<ul style="list-style-type: none"> Installation of door- and window frames Filling of cavities Sealing and filling of openings and cavities in roof constructions Creation of an acoustic screen Creation of a sound deadening layer Improvement of insulation in cold store facilities All other usual PU Foam applications

TECHNICAL DATA			
Chemical base	Polyurethane	Shrinkage after curing	< 3%
Consistency	Stable Foam	Expansion during curing	< 1%
Curing system	Moisture Cure	Yield	750 ml yields Ca. 26.5 l of foam
Skin formation	Ca. 7 min	Compressive Strength	Ca. 34 kPa
Density	Ca. 25kg/m ³	Shear strength	Ca. 54 kPa
Curing Time	90 min. for 30mm bead	Water Absorption	Ca 0.27 kg/m ³
Cellular Structure	Fine	Reaction to fire:	No fire classification
Acoustic Installation	58 dB	Temperature resistance	-40° C till +90° C (cured)
Thermal conductivity (λ)	37 mW/m.K	Application Temperature	+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	35.0	1.43	1.71	2.00	2.29	2.57	2.86	3.57	4.00	5.71	6.29
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	34.5	1.45	1.74	2.03	2.32	2.61	2.90	3.62	4.06	5.80	6.38
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	34.0	1.47	1.76	2.06	2.35	2.65	2.94	3.68	4.12	5.88	6.47
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
Soudal One Shot Expanding Foam	35.4	1.41	1.69	1.98	2.26	2.54	2.82	3.53	3.95	5.65	6.21

PACKAGING / LOGISTICS

- Aerosol cannister 500 ml & 750 ml, 12 x cannisters per box
- 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.*

Manufactured by	Soudal NV	Distributed by	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 for further information if required.

APPLICATION	
Surface Types	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. An initial wipe with Soudal Surface Activator is required. Soudal recommends a preliminary compatibility test.
Application Temp	+5°C to +35°C
Directions for use	<ul style="list-style-type: none"> Shake the canister thoroughly for ca. 30 seconds. Open the lid on the top and wear the enclosed gloves. Straighten the applicator tube. Apply a fine water spray to the surface which needs to be clean and free of grease and dust. Turn around the canister and extrude the foam carefully by applying pressure on the trigger. Fill cavities on for 30 to 40 % as the foam will continue to expand during the curing process. Shake canister regularly during the application. If Foam is applied in several layers, moisten between each layer of foam.





After use	<ul style="list-style-type: none">· At the end of the application, close the applicator tube with the sealing plug and click into the holder. Close the lid. The canister can be reactivated for up to 6 weeks if resealed correctly.
Cleaning at times of interruption	<ul style="list-style-type: none">· Uncured foam can be removed with Soudal Expanding Foam Cleaner or acetone. Cured foam can only be removed mechanically.
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 Genius.

REMARKS

- Always moisten surfaces in order to improve curing and cellular structure.
- Cured Soudal Pro Expanding Foam Genius must be protected from UV-radiation by painting or applying a top layer of sealants (silicone, MS Polymer, etc).
- For the filling of large volumes apply product in layers and moisten between each layer.
- Always store canister with the valve pointed upwards.

- Soudal recommends preliminary compatibility tests on surfaces on which PU Foams have not been applied previously.

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.