



PRODUCT NAME	Soudal Soudabond Subfloor Genius
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PRODUCT DESCRIPTION
Soudabond Subfloor Genius is a ready-to-use, single component, high strength, fast curing polyurethane adhesive that collapses to a gel immediately after dispensing. It is used for clean, efficient and economical permanent subfloor bonding in building and construction.



PROPERTIES	APPLICATIONS
• One can of Soudabond Subfloor Genius replaces up to 12 cartridges of traditional adhesive. • Consumption when gluing subfloor, 1 can per 15 m². • Saves application time (up to 25%) and money over the use of traditional adhesives. • Excellent initial bond, even at low temperatures. • Economical in use due to precise application. • Can be applied at temperatures between -15°C and +35°C. • Limited post expansion for fast and precise installation of subfloors. • Substantial space and weight savings compared to conventional PU adhesives, bonding mortars, etc. • Fast curing. • Solvent-free. • Resistant to a variety of solvents, paints and chemicals. • Does not age or rot, mold and mildew resistant, but not UV resistant. • Water resistant (not watertight). • Sticks to wet or frozen timber. • Can prevent floors from squeaking. • Tested according to ASTM E84 • Tested according to ASTM D3498	• Clean, efficient and economical permanent bonding of all common types of subfloor decking. • Other horizontal construction adhesive applications.



TECHNICAL DATA			
Chemical Base	Polyurethane	Consistency	Collapsible Gel Adhesive
Curing System	Moisture Cure	Temperature Resistance	-40°C to + 90°C
Skin Formation *	Ca. 20 min	Application Temperature	-15°C to + 35°C
Curing time *	Ca. 4 Hours	Cannister Temperature Optimum Temp:	+ 5°C to + 25°C +15°C to + 25°C
Full Strength *	Ca. 24 hours	Storage Temperature	+ 5°C to + 25°C
Shear Strength (Dry Timber – ASTM D3498)	1,95 N/mm2	Shear Strength (Wet Timber – ASTM D3498)	1,41 N/mm2
Shear Strength (Frozen Timber – ASTM D3498)	4,05 N/mm2		

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

APPLICATION
Substrate Types:
All usual substrates such as plywood, timber (frozen, wet or treated), OSB, particle board, concrete, metals, masonry, stone and plaster.
Substrate Preparation:
- Adhesive surfaces must be stable, clean, without bubbles and free of separating agents such as talcum, grease, oils, etc. - Not suitable for use on substrates with a water film or standing water. - Any cement slurries and sinter layers on mineral substrates must be removed mechanically. - Does not adhere to PE, PP, PTFE and silicone. - All substrates should be tested for suitability with regard to adhesion and compatibility.
Application Instructions:
- Prior to using the product, cover all adjacent areas for protection against soiling. In windy conditions, precautions must be taken to ensure that Soudabond Subfloor Genius cannot contaminate components, objects or persons in the vicinity. - Good ventilation must be ensured for indoor use. - Wear protective goggles and gloves. - Tightly screw the can to the thread in the gun and shake the gun about 30 seconds with the valve pointing downwards so that the contents are mixed well to ensure an optimum adhesive quality and high yield. - After extended periods of non-use, the can must be shaken again to obtain the required adhesive quality! - With the control knob on the gun, adjust the adhesive bead to the required diameter (the emptier the can, the more the adjusting screw needs to be opened). The can must be held vertical during application.
Process:
- Apply the adhesive in uniform beads of 1 – 2 cm centrally onto the mounting studs. A distance of 1 – 2 cm must be maintained between the gun nozzle and substrate while spraying. - Place the subfloor decking onto the gel adhesive within 20 minutes after dispensing. Do not remove and reapply panels as this will damage the adhesive structure and reduce the adhesive strength substantially. At high temperatures and low humidity in particular, curing can be accelerated by lightly spraying the adhesive bead with water. - Once the panels are set, and while keeping pressure, secure the boards additionally with mechanical fasteners



BUILDING PRODUCT INFORMATION*

**This section applies to NZ only.*

Manufactured By	Soudal	Distributed By	Soudal Ltd
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Relevant Building Code Clauses

Note: This product is an adhesive and on its own is not within the scope of the NZ Building Code. However, when it is used as part of an internal floor, wall, or ceiling system, or with other building elements that must comply with the NZ Building Code, and it is used in accordance with that material supplier's specification and Soudal's technical literature, it will contribute to meeting the requirements of the following clauses:

- B1 Structure: Performance clauses B1.3.1, B1.3.2, B1.3.3 (a, b, j, q), B1.3.4
- B2 Durability: Performance clauses B2.3.1 - (b) not less than 15 Years, (c) not less than 5 years
- F2 Hazardous Building Materials: Performance clause F2.3.1

Contribution to Compliance with NZBC

Performance B1.3.1, B1.3.2, B1.3.3 (a, b, j, q) B1.3.4: When used as an adhesive this product contributes to meeting the loading requirements that bonded lining elements are subjected to, as a result of self-weight, imposed in-use gravity loading, impact, and the effects of creep and shrinkage over time.

Performance B2.3.1 (b) 15 years and (c) 5 years: This product achieves these durability requirements and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Soudal product technical documents. Soudal maintains production & management systems in accordance within its ISO9001:2015 Quality Management System.

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Soudal's installation instructions and does not present a health hazard to people occupying or using the building.

Refer to the Soudal Product Technical Data Sheet and product Safety Data Sheet soudal.co.nz for further information if required.

STANDARDS & APPROVALS

- ASTM E84
- ASTM D3498

HEALTH AND SAFETY RECOMMENDATIONS

- Observe the standard industrial hygiene procedures.
- Wear protective goggles and gloves.
- Remove cured adhesive mechanically, never remove with a flame.
- For further information on product safety and handling, refer to the information on the container.

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.

