

Soudabond Subfloor

Revision: 21/08/19

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Technical data

Basis	Single component polyurethane
Consistency	Collapsible gel adhesive
Curing system	Moisture cure at room temperature
Curing time*	Ca. 4 hours
Skin formation*	Ca. 20 minutes
Full strength*	Ca 24 hours
Post expansion	Minimal
Shear strength (ASTM D3498)	
Wet timber	1.41 N/mm ²
Dry timber	1.95 N/mm ²
Frozen timber	4.05 N/mm ²
Moisture resistance (ASTM D3498)	2.18 N/mm ²
Temperature resistance	-40 °C → 90 °C, 120 °C (up to max. 1 hour)
UL 723 (ASTM E 84) Fire test	Flame spread = 15 Smoke development = 35



(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Product description

Soudabond Subfloor 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. Soudabond Subfloor does not contain CFC's or HCFC's.

Properties

- One (1) can of Soudabond Subfloor replaces up to 12 cartridges of traditional adhesive.
- Saves application time (up to 25%)
- Save 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 -17 °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, mould 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 E 84
- Tested according to ASTM D3498

Applications

- Clean, efficient and economical permanent bonding of all common types of subfloor decking.
- Other horizontal construction adhesive applications.

Form of delivery

Colour: Champagne/brown

Packaging: 836 mL can (12 per box)

Shelf life

24 months from date of production in unopened packaging with cool (5 °C to 25 °C) and dry storage. Cans must be stored upright to prevent blockage of spray valve. Once opened, keep container tightly closed and use within a short period.

Remark: 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. 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 beyond our control, no liability under this publication are accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Substrate

All usual substrates such as plywood, timber (frozen, wet or treated), OSB, particle board, concrete, metals, masonry, stone and plaster.

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 loose 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 regards to adhesion and compatibility.

Direction for use

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 cannot contaminate components, objects or persons in the vicinity.

Good ventilation must be ensured for indoor use. The product is flammable during dispensing.

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 of about 12 mm. (The emptier the can, the more the control knob needs to be opened). The can must be held vertical during application.

1. Apply the adhesive in uniform beads of 12 mm centrally onto the mounting studs. A distance of 10 to 20 mm must be maintained between the gun nozzle and substrate while spraying.
2. Place the subfloor decking onto the gel adhesive within 10 minutes after dispensing.

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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.

3. Once the panels are set, and while keeping pressure, secure the boards additionally with mechanical fasteners.

Application temperature

Surface: -17 °C and +35 °C

Can temperature: 5 °C to 25 °C

If required, slowly bring the can to the optimal temperature by placing in cool or warm water.

Cleaning: With GUN & FOAM CLEANER or SWIPEX prior to curing, subsequently with PU REMOVER or remove mechanically.

Repair option: With Soudabond Subfloor

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 more information, see Safety Data Sheet.

Standards and approvals

- UL 723 (ASTM E 84)
- ASTM D3498