

Soudabond Construct Gunfoam

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Technical data

Basis	Polyurethane
Consistency	Collapsible gel adhesive
Curing system	Moisture curing at room temperature
Skin Formation (EN 17333-3)	Ca. 20 min
Full curing	Ca. 24 hours
Curing time*	Ca. 4 hours
Post expansion	Minimal
Shear strength wet lumber (ASTM D3498)	1,41 N/mm ²
Shear strength dry lumber (ASTM D3498)	1,95 N/mm ²
Shear strength frozen lumber (ASTM D3498)	4,05 N/mm ²
Moisture resistance (ASTM D3498)	2,18 N/mm ²
Temperature resistance**	-40 °C till +90 °C (cured) 120 °C (max 1 hour)

** This information relates to fully cured product.

Measured at 20 °C / 65 % R.H. These values may vary depending on ambient factors such as temperature, humidity and type of substrate.

Product description

Soudabond Construct Gunfoam 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 and full brick bonding in building and construction. Soudabond Construct Gunfoam does not contain CFC's or HCFC's.

Properties

- One can replaces up to 25 cartridges of traditional adhesive.
- One can replaces up to 25 kg of traditional mortar-based 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 the precise application with a gun.
- Can be applied at temperatures between -15 °C and +35 °C.

- Limited post expansion for fast and precise installation of subfloors or full bricks.
- 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 lumber.
- Can prevent floors from squeaking.
- Tested according to ASTM D3498

Applications

Clean, efficient and economical permanent bonding of all common types of subfloor decking.

Full brick bonding of non-structural walls.
Other horizontal construction adhesive applications.

Packaging

Colour: Champagne/brown

Packaging: 750 ml aerosol (net)

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 are beyond our control, no liability under this publication is 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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Shelf life

24 months unopened and stored in dry and cool conditions (Between 5 and 25 °C), Cans must be stored upright to prevent blockage of the valve. Once opened, keep container tightly closed and use within a short period.

Substrates

All usual substrates such as plywood, lumber (frozen, wet or treated), OSB, particle board, concrete, metals, masonry, stone, AAC-bricks 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. Does not adhere to PE, PP, PTFE and silicone. All substrates should be tested for suitability with regard to adhesion and compatibility.

Application method

Gluing

General

Prior to using the product, cover all adjacent areas for protection against soiling. In windy conditions, precautions must be taken to ensure that Soudabond Construct Gunfoam 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 20 times downwards so that the contents are mixed well to ensure an optimum adhesive quality and high yield. After extended periods of non-use, the gun must be shaken again to obtain the required adhesive quality! With the adjusting screw 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 gun must be held vertical during application.

A. Subfloor bonding:

1. 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.
2. 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.
3. Once the panels are set, and while keeping pressure, secure the boards additionally with mechanical fasteners.

B. Full brick bonding:

SOUDABOND CONSTRUCT must not be used for components requiring approval, e.g. supporting walls and walls relevant for safety! Good ventilation must be ensured for indoor use!

1. Clean the adhesive surfaces, remove loose particles and moisture.
2. Apply two SOUDABOND CONSTRUCT adhesive beads with a diameter of about 2-3 cm to the substrate. The adhesive beads must be applied about 50 mm away from the stone edge parallel on horizontal joints.
3. Position/join and align bricks within minimum 2 to maximum 20 minutes (20°C/65% R.H. – this time is shorter at higher temperature/humidity and longer at lower temperature/humidity).
4. If once joined and bricks are removed, new adhesive beads must be applied.

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5. Allow excess adhesive to cure and subsequently remove, e.g. with a spatula. Depending on the ambient temperature, work can be continued after minimum 60 minutes. The adhesive achieves full strength after minimum 24 hours.

Can Temperature: +5 °C - +25 °C (optimal +15 °C - +25 °C. If required, slowly bring the can to the optimal temperature by placing in cool or leek water.

Surface Temperature: -15 °C - +35 °C

Health- and Safety Recommendations

Take the usual labour hygiene into account. Always wear gloves and goggles. Remove cured foam mechanically. Never burn away. Consult label and material safety data sheet for more information.

Remarks

- Cleaning: With Soudal GUN and FOAM cleaner before curing, after curing only to be removed mechanically with the possible use of PU remover.
- Repair option: With Soudabond Construct Gunfoam

Standards and certificates

ASTM D3498

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