

Soudabond 641

Product description

Soudabond 641 is a 1-component construction adhesive based on polyurethane for bonding corner pieces in aluminum window profiles by pre-injection (injection before assembly).

Properties

- Excellent adhesion on aluminum
- Fast strength build-up
- Very high final strength
- Free of solvents and water
- Foaming penetration action to fill bond cavities
- Ready to use

Applications

- For bonding angle pieces in extruded aluminium window profiles by means of pre-injection (injection before assembly).
- Bonding of various metals.



Technical data

Base	Polyurethane
Consistency	Paste
Curing system	Moisture curing
Skin formation	ca. 20 min
Curing speed	2 mm/24h → 3 mm/24h
Density	1.43 g/ml
Hardness	ca. 65 shore D
Shear strength	After 24h ca. 2.8 N/mm ² , Final strength ca. 11 N/mm ² (on Al99)
Application temperature	+5°C → +35°C
Temperature resistance	-30°C → +100°C

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

Substrates

- Substrate condition
The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
No pretreatment required. A preliminary adhesion test on every substrate is recommended.
- Substrate types
Soudabond 641 has a good adhesion to following substrates: all metals, aluminium, wood, stone, PVC. Soudabond 641 has no good adhesion or is not suitable for glass, PE, PP, PA, EPDM, PTFE (Teflon®).

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Application method

■ Application method

Apply sufficient Soudabond 641 into the cut window frame with a manual or pneumatic caulk-gun and slide the corner piece into the window frame before the adhesive starts to skin. Additional wetting in order to accelerate the curing is necessary. In doing so, care should be taken not to moisten the mitre cuts. Therefore it is preferable to apply Soudal AluSeal on the mitre cuts before injecting Soudabond 641. Another possibility is to immerse the corner piece in water just before assembly, to prevent water contact on the mitre cuts or Aluseal. Clamping the materials together, during curing, is required in order to achieve the highest possible final strength. The use of Soudabond 641 should be limited to the pre-injection method (application before assembly). For bonding through post-injection it is preferable to use Soudabond 642 Duo, a self-curing 2 component system.

■ Cleaning method

Uncured Soudabond 641 can be removed from substrates and tools with Soudal Gun and Foam Cleaner. Cured product can only be removed mechanically.

■ Repair method

Repair with the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.

Packaging/Logistics

Colour: Black, Beige

Packaging: 310 ml cartridge

Shelf life: Cartridges: 9 months, Foil bags: 12 months If stored in an unopened packaging and stored in a cool and dry place at temperatures between +5°C and +25°C.

Environmental clauses

- Leed regulation: Soudabond 641 conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

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.