Technical datasheet

Fix ALL Turbo

Product description

Fix ALL Turbo is a high quality, neutral, elastic, one-component adhesive-sealant with very fast strength build-up based on SMX-polymer.

Properties

- Quickly manipulable and very fast strength build-up with thin adhesive layer and on porous substrates.
- High adhesive strength
- Good extrudability
- Very good adhesion on many materials, even if slightly moist
- Permanently elastic after curing
- Can be painted with water based systems
- Good weather resistance
- Good UV resistance
- Non staining on natural stone
- Fix ALL Turbo achieves a hand tight bond in 20 minutes
- Fix ALL Turbo is adjustable until ca. 5 minutes after application.

Applications

- Bonding in building and metal industry.
- Elastic bonding of objects, panels, profiles and other pieces on the most common substrates.
- Sealing and bonding applications in the building industry.

Technical data

Base		SMX Hybrid Polymer
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 5 minutes
Curing speed		ca. 2-3 mm/24h
Density		ca. 1.52 g/ml
Maximum allowed joint movement		± 20 %
Elasticity modulus	ISO 37	ca. 3.00 N/mm²
Elastic recovery	ISO 7389	> 75 %
Elongation at break	ISO 37	ca. 200 %
Maximum tension	ISO 37	ca. 3.80 N/mm²
Hardness		65 ± 5 Shore A
Application temperature		+5°C → +35°C
Temperature resistance		-40°C → +90°C

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

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Substrates

- Substrate condition
  The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
  Porous surfaces should be primed with Primer 150. If needed non porous surfaces can be prepared with a Soudal activator or cleaner (see Technical Data Sheet). While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding or sealing. For optimum adhesion the use of Surface Activator is recommended.
- Substrate types
  Fix ALL Turbo has a good adhesion to following substrates: all usual building substrates, lacquered wood, aluminium, steel, AlMgSi1, electrolytic galvanized steel, AlCuMg1, flame galvanised steel, AlMg3, steel ST1403, natural stone, plastics, polystyrene, polycarbonate, PVC, ABS, polyamide, PMMA, fiberglass reinforced epoxy, polyester, etc.. Fix ALL Turbo has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates, copper or copper containing materials such as bronze and brass. Bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Fix ALL Turbo is not recommended in these applications. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
  Apply the adhesive by means of a caulking gun in uniform adhesive strips or dots (every 15 cm) on one of the substrates. Always apply an adhesive dot or strip on the corner and edges of the panel. Do not apply the glue in a closed circumference, but interrupted. Bond the substrate and tamp with a rubber hammer. If necessary, support the bonded materials. For bonding on absorbent and porous substrates with thin adhesive layer, the adhesive is already hand tight after ca. 20 minutes and can be loaded after ca. 3 hours. Thicker adhesive layers or non-absorbent substrates extend the curing time.
- Cleaning method
  Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Fix ALL Turbo can only be removed mechanically.
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  Repair with Fix ALL Turbo.

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult the packaging label and safety data sheet for more information.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: Please consult the product catalogue, the Soudal website or a Soudal representative.
Packaging: Please consult the product catalogue, the Soudal website or a Soudal representative.
Shelf life: 15 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C, Once opened the product has only a limited shelf life.

Standards and certificates

- NL: KOMO certified for construction adhesive. BRL3107
- Declaration of compliance ISEGA - Tested for use in foodstuffs-related area.

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Environmental clauses

- Leed regulation: Fix ALL Turbo 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.

Remarks

- Fix ALL Turbo may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Fix ALL Turbo can not be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- Fix ALL Turbo can be used for bonding natural stone, but it cannot be used as a joint sealant on this type of surface.
- When applying, make sure that the surface of the materials is not smudged with sealant.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Fix ALL Turbo has a good UV resistance but can discolour under extreme conditions or after long UV exposure.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.