

FIX ALL TURBO

Revision: 01/04/2024

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Technical Data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing System	Moisture cure
Skin formation* (23°C/50% R.H.)	Ca. 5 min
Curing speed * (23°C/50% R.H.)	2mm/24h → 3 mm/24h
Hardness**	65 ± 5 Shore A
Density	1,52 g/ml
Elastic recovery (ISO 7389)**	> 75 %
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	3,80 N/mm ²
Elasticity modulus 100% (ISO 37)**	3,00 N/mm ²
Elongation at break (ISO 37)**	200 %
Hand tight (*)	After 20 min (after pressing firmly)
Adjustable until	Ca. 5 min
Temperature resistance**	-40 °C → 90 °C
Application temperature	5 °C → 35 °C

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

** This information relates to fully cured 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. Fix ALL Turbo is a KOMO-certified construction adhesive based on BRL3107.

Properties:

- Quickly manipulable and very fast build-up of strength with thin adhesive layer and on porous substrates.
- Very high final strength
- Good extrudability
- Good adhesion to most common substrates, even on slightly wet substrates
- Permanently elastic after curing
- Can be painted with water-based systems
- Good weather and UV resistance

- No staining on porous surfaces such as marble, granite, and other natural stones

Applications:

Colour: White, other colors on request
Packaging: 290ml cartridge, 125ml tube, 600ml foil bag, other packaging on request

Packaging:

Colour: White, black, grey, bright grey, brown, beige, other colors on request
Packaging: 290ml cartridge, 125ml tube, 200ml presspack, 600ml foil bag, other packaging on request.

Shelf life and storage:

15 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

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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Good resistance to (salt)water, aliphatic solvents, hydro carbons, ketones, esters, alcohols, diluted mineral acids and alkalis.

Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Health and Safety Recommendation:

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

Dangerous! Respect the precautions for use.

Joint Dimensions:

Min. width for bonding: 2mm

Min. width for joints: 5mm

Max. width for bonding: 10mm

Max. width for joints: 30mm

Min. depth for joints: 5mm

Recommendation sealing jobs: joint width = 2x joint depth.

Substrates:

Substrates: all usual building substrates, treated wood, aluminium, natural stone, plastics, ...

Nature: rigid, clean, dry, or slightly moist, free of dust and grease.

Surface preparation: Porous surfaces should be primed with Primer 150. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). Fix ALL Turbo has been tested on the following metal surfaces: steel, AlMgSi1, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3, and steel ST1403. Fix ALL Turbo also has good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, fiber glass-reinforced epoxy, polyester. 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.

NOTICE: 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. Not suitable for PE, PP, PTFE (e.g., Teflon®), bituminous substrates, copper or copper-containing materials such as bronze and brass. 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 panels. 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 approx. 20 minutes and can be loaded after about 3 hours. Thicker adhesive layers or non-absorbent substrates extend the curing time.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use. Cured Fix ALL Turbo can only be removed mechanically.

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material.

Remarks:

- Fix ALL Turbo is paintable with most common paints. Due to the wide variety of lacquers and paints, a compatibility test is always recommended.
- The drying time of alkyd resin-based paints may increase.
- Fix ALL Turbo cannot be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.

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- Not suitable for sanitary applications.
- Fix ALL Turbo can be used for bonding of 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 good UV resistance but can discolor under extreme conditions or after very long UV exposure.
- Discoloration due to chemicals, high temperatures, UV radiation may occur. A change in color does not affect the technical properties of the product.

Standards and certificates:

- NL: KOMO certificate Nr. 33275 construction adhesive based on BRL3107.
- Declaration of compliance ISEGA - Tested for use in food stuffs-related area.

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.

Liability:

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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