

SOUDAL

PROFESSIONAL CONSTRUCTION & INDUSTRIAL PRODUCTS

FIX ALL TURBO

SUPER FAST, HIGH STRENGTH, HEAVY-DUTY HYBRID POLYMER ADHESIVE



Our high strength adhesive can be used to bond heavy materials in as quickly as 20 minutes! Achieving such a strong bond in such a short time is no easy feat, but what's more impressive is in how long the product lasts.

Soudal's proprietary SMX hybrid polymer technology means that this product can bond and work on virtually all materials, and even underwater.

PROPERTIES

- Super fast - capable of achieving 90% of final bond strength after 20 minutes
- Extremely durable, high strength bond with superb resistance to movements
- Heavy-duty adhesive with extreme adhesion to most substrates
- Retains limited flexibility and elasticity to ensure long-lasting bond
- Bonds onto humid surfaces, even underwater!
- Excellent resistance to weather and UV
- No smell, solvent-free, isocyanate-free
- Harmless to health and to the environment
- Fast curing without the need of a primer
- Has KOMO certificate for Construction Adhesive in accordance to BRL 3107

APPLICATION

- Perfect for almost any bonding applications
- Construction bonding
- Any bonding requiring super-fast adhesive performance
- Sign-making, automotive, marine, and industrial applications

SUITABLE SUBSTRATES

Stone, Concrete, Marble, Granite, Limestone, Travertine, Cork, Rockwool, Gypsum board, Polystyrene, Glass, Mirror, Porcelain, Tiles, Brickwork, Steel, Stainless steel, Lead, Zinc, Copper, Aluminium, PVC, Polycarbonate, Wood, Timber, Plywood, MDF, Plasterboard, Fibreglass, and many more. Not suitable for PE, PP, and PTFE.

PACKAGING

290 ml cartridges, 12 cartridges / carton

COLOURS

White

SHELF LIFE

12 months in unopened packaging in a cool and dry place between 5°C to 25°C.

SUPER FAST

SUPER STRONG

ALL MATERIALS

SOUDAL

EXPERTS IN SEALANTS, FOAMS, AND ADHESIVES

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Technical data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 5 min
Hardness	65 ± 5 Shore A
Density	1,52 g/ml
Elastic recovery (ISO 7389)	> 75 %
Maximum allowed distortion	± 20 %
Temperature resistance	-40 °C → 90 °C
Max. tension (DIN 53504)	3,80 N/mm ²
Elasticity modulus 100% (DIN 53504)	3,00 N/mm ²
Elongation at break (DIN 53504)	200 %
Adjustable until	Ca. 5 min
Application temperature	5 °C → 35 °C

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

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
- Permanent elastic after curing
- Can be painted with water based systems
- Good colour stability, weather and UV resistance

Applications

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

Packaging

Colour: white

Packaging: 290 ml cartridge

Shelf life

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

Chemical resistance

Good resistance to water, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis and (salt) water. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

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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Substrates

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

Nature: clean, free of dust and grease.

Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. All smooth surfaces can be treated with Surface Activator.

Fix ALL Turbo has been tested on the following metal surfaces: steel, AlMgSi1, brass, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Fix ALL Turbo also has a good adhesion on plastics: polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, fiberglass 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. 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. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary compatibility test.

Application method

Application method: Apply the adhesive by means 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. Bond the substrate and tamp with a rubber hammer. If necessary, support the bonded materials. The adhesive is hand tight after 20 min and can be loaded after 3 hours.

Cleaning: With Fix ALL Cleaner 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

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label for more information.

Remarks

- Fix ALL Turbo is paintable with most waterbased paints, 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.
- 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. Fix ALL Turbo can therefore only be used on the bottom of natural stone tiles.
- When applying, make sure not to spill any sealant on the surface of materials.

Standards

- NL: KOMO certificate Nr. 33275 construction adhesive based on BRL3107.

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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.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. She 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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