Technical datasheet

Fix ALL Flexi

Product description

Fix ALL Flexi is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on SMX Hybrid Polymer.



Properties

- Good extrudability
- Permanently elastic after curing
- Very good adhesion on many materials, even if slightly moist
- Low odour
- Very low emission, EC1+ certified
- Impervious to mould, contains biocide with fungicidal action
- Neutral curing
- Excellent UV-resistance
- Very good resistance to ageing
- Can be painted with water based systems
- Suitable for natural stone

Applications

- Sealing and bonding applications in the building industry.
- Strong elastic bonding in vibrating constructions.
- Sealing joints in sanitary rooms (bathroom) and kitchens.
- Sealing of floor joints

Technical data

Base		SMX Hybrid Polymer
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 10 minutes
Curing speed		ca. 2 -> 3mm/24h
Density		ca. 1.67 g/ml
Maximum allowed joint movement		± 20%
Elasticity modulus	ISO 37	ca. 1.10 N/mm²
Elastic recovery	ISO 7389	> 60%
Elongation at break	ISO 37	ca. 750%
Maximum tension	ISO 37	ca. 2.00 N/mm²
Hardness		ca. 45 ± 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.

Soudal UK
Soudal House, Unit 1, Centurion Way, Centurion Park, B77 5PN Tamworth
+44 1827 261 092
www.soudal.com salesuk@soudal.com

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Substrates

- Substrate condition
  The surface must be rigid, clean, dry or slightly moist, free of dust and grease.
- Substrate preparation
  Fix ALL Flexi has a good adhesion to most substrates. However, for optimal adhesion and in critical applications, such as joints exposed to extreme weather conditions, high- or water-loaded joints, we recommend to follow a pre-treatment procedure. Soudal Surface Cleaner can be used to clean and degrease a non-porous substrate. 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). All substrates should be tested for suitability with regard to adhesion and compatibility.
- Substrate types
  Fix ALL Flexi has a good adhesion to following substrates: all usual building substrates, acrylic baths, aluminium, ceramic tiles, lacquered wood, metal, concrete, brick, natural stone, plastics, PVC. 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 Flexi is not recommended in these applications. Fix ALL Flexi 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.

Application method

- Application method
  Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply the product evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that finishing solution comes between the joint edges and sealant (to prevent adhesion loss). It is important to ventilate well the places where the product is applied. Continue to ventilate throughout the curing time. Bonding: Apply the adhesive by means of a caulking gun in equal beads or dots on one of the materials that have to be bonded. Always apply a bead on the edges of the substrates and on edges and corners of panels. Press the substrates together before skin formation and batten down with a rubber hammer. Support if needed.
- Application tools
  With a manual, pneumatic or battery caulking gun.
- Cleaning method
  Clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. After curing, only mechanically removable.
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  Repair with Fix ALL Flexi.

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: Various colours available. 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

- Tested according to ISO 16938-1 (Testing for staining on natural stone by sealants)
- Declaration of compliance ISEGA - Tested for use in foodstuffs-related area.

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Joint dimensions

- Min. width for joints: 5 mm
  Max. width for joints: 30 mm
  Min. depth for joints: 5 mm
  Recommendation for sealing jobs: joint width = 2 x joint depth

Environmental clauses

- Leed regulation: Fix ALL Flexi 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 Flexi may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- A total absence of UV can cause a color change of the sealant.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- We strongly recommend not to apply Soudal finishing solution in full sunlight as it will dry very fast in these circumstances. On certain surfaces Soudal finishing solution can cause staining. A preliminary test is always recommended.
  When finished with Soudal finishing solution, make sure that the adhesion surfaces are not touched by this solution. This will cause the sealant not to adhere to that surface. Therefore we recommend to only dip the finishing tool in the finishing solution.
- Fix ALL Flexi can not be used as a glazing sealant.
- Do not use on polycarbonate.
- Not suitable for bonding aquariums.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- When applying, make sure not to spill any sealant on the surface of materials next to the joint. Using tape on the surface next to the joint can prevent this.
- 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.
- Do not use in applications where continuous water immersion is possible.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits or soap residues will stimulate the development of fungi.

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.

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