SOUDAL

Technical Data Sheet

FIX ALL FLEXI

Technical Data

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing System	Moisture cure
Skin formation* (23°C/50% R.H.)	Ca. 10 min
Curing speed * (23°C/50% R.H.)	2mm/24h → 3 mm/24h
Hardness**	40 ± 5 Shore A
Density	1.67 g/ml
Elastic recovery (ISO 7389)**	> 75 %
Maximum allowed distortion	± 20 %
Max. tension (ISO 37)**	1.80 N/mm²
Elasticity modulus 100% (ISO 37)**	0.75 N/mm²
Elongation at break (ISO 37)**	750 %
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 Flexi is a high quality, neutral, elastic,one-component construction joint and adhesive sealant based on SMX Hybrid Polymer.

Properties:
- Good extrudability.
- Stays elastic after curing and very durable
- Excellent adhesion on nearly all surfaces, even if slightly moist.
- Can be painted with water based systems.
- No odour.
- Very low emission, EC1+ certified.
- Impervious to mould, contains biocide with fungicidal action.
- Does not contain solvents, isocyanates, acids, halogens and toxic components, completely neutral.
- Good weather and UV resistance.

Applications:
- Sealing and bonding in the building and construction industry.
- Strong elastic bonding in vibrating constructions.
- Sanitary applications.
- Sealing of floor joints.
- Sealing and bonding in the building and construction industry .

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.

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

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Health and Safetty 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, natural stone, treated wood, PVC, plastics.
Nature: rigid, clean, dry or slightly moist, free of dust and grease.
Surface preparation: Porous surfaces in water loaded applications should be primed with Primer 150. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet). The surfaces should be degreased before bonding them together. Fix ALL Flexi has been tested on the followingmetal surfaces: steel, AlMgSi1, electrolytic galvanised steel, AlCuMg1, flame galvanised steel, AlMg3 and steel ST1403. Fix ALL Flexi has an excellent adhesion on most common substrates: all usual building substrates, natural stone, treated wood, PVC, plastics. Fix ALL Flexi also has a good adhesion onplastics: 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 and cracking in these substrates. The use of Fix ALL Flexi is not recommended in the application.
Not suitable for PE, PP, PTFE (egTeflon®), 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: With manual or pneumatic caulking gun.
Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use
Finishing: With a soapy solution or Soudal Finishing Solution before skinning.
Repair: With the same material.

Remarks:
- Fix ALL Flexi may be over-painted with water-based 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 Flexi can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc., may differ from manufacturer to manufacturer, we recommend a preliminary compatibility test.
- Fix ALL Flexi cannot be used as a glazing sealant.
- Not suitable for bonding aquariums.
- Fix ALL Flexi can be used for bonding and sealing on natural stone.
- The sanitary formula should not replace regular cleaning of the joint. Excessive contamination, deposits, or soap remnants will stimulate the development of fungi.
- Do not use in applications where continuous water immersion is possible.
- A total absence of UV can cause a color change of the sealant. When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Fix ALL Flexi 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.
- 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.

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.

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.

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.