

7 December 2023

SOUDAFLEX 42FX

Technical Data

Basis	Polyurethane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	35 → 45 min
Curing speed* (23°C/50% R.H.)	Ca. 4 mm/24h
Hardness**	Ca. 40 ± 5 Shore A
Density	Ca. 1.41 g/mL
Maximum allowed distortion (ISO 11600)	± 20%
Max. tension (ISO 37)**	Ca. 2.15 N/mm ² (MPa)
Elasticity modulus 100% (ISO 37)**	Ca. 1.35 N/mm ² (MPa)
Elongation at break (ISO 37)**	> 700%
Temperature resistance**	-30 °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

Product description

Soudaflex 42FX is a high quality, neutral, elastic, 1-component construction joint and adhesive sealant based on polyurethane.

Properties

- Fast curing
- Very easy to apply
- High bond strength
- Permanently elastic after curing
- Very good adhesion on many materials
- Good resistance to UV radiation
- Excellent resistance to many chemicals
- Not suitable for natural stone
- Trafficable
- Paintable

Applications

- All sealing and bonding applications in the building industry.
- Structural bonding in vibrating constructions.
- Sealing of shrinking joints in concrete floors.
- Sealing trafficable expansion joints
- Bonding of roof tiles.

Packaging

Colour: concrete grey, white, black, grey

Packaging: 600 mL sausage

Shelf life

12 months in original, unopened packaging in a cool and dry storage place with temperature between +5°C and +25°C.

Substrates

Substrates: all usual building substrates, brick, concrete, metals, polyesters, ...

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

Surface preparation: Soudaflex 42FX 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 pretreatment procedure. Prepare non-porous surfaces with a Soudal **Surface Activator** or cleaner (see Technical Data Sheet). Porous surfaces should be primed with Soudal **Primer 100**. Always use **Primer 100** on *natural stone*. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate.

Joint dimensions

	JOINT		BONDING
	Width	Depth	Width
Min	5 mm	5 mm	2 mm
Max	30 mm	½ width	10 mm
Recommendation for sealing: width = 2x depth			

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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Application method

Apply the product by means of a manual-, battery- or pneumatic- caulking gun. Apply Soudaflex 42FX evenly without air inclusions into the joint. Smoothen the joint with a spatula with the help of finishing solution. Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with Soudal Surface Cleaner or with Soudal Swipex, immediately after use. cured Soudaflex 42FX 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 and material safety data sheet for more information. Use only in well-ventilated areas. Dangerous. Respect the precautions for use.

Remarks

- Soudaflex 42FX is paintable with most common paints. Due to the wide variety of lacquers and paints, a compatibility test is always recommended.
- Soudaflex 42FX cannot be used as a glazing sealant.
- Do not use in applications where continuous water immersion is possible.
- It is recommended to do a compatibility test prior to application.
- Soudaflex 42FX has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- 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 discolouration and loss of adhesion.
- Do not apply or allow to cure in the presence of uncured silicone sealants, alcohol - or other solvent cleaners.

- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.

Environmental clauses

Leed regulation:

Soudaflex 42FX 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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