

Soudaflex 40FC

Revision: 10/01/2019

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Technical data

Base	Polyurethane	
Sag	No sag in vertical displ. @49°C	ASTM C 639
Curing system	Moisture Cure	
Skin Formation (*)	Ca. 15 min	@ 23°C & 50% R.H.
Tack-free time (*)	90 minutes	ASTM C 679
Curing time (*)	24-48 hrs, 1/4" diameter bead	@ 23°C & 50% R.H.
Hardness – Shore A	40 +/- 5	ASTM C 661
Density	1,30 g/ml	
Tensile Yield	245 psi	ASTM D 412
Elongation	700%	ASTM D 412
Movement capability	+/- 25%	ASTM C 719
Stain and color change	Passes	ASTM C 510 (mortar)
Artificial weathering	No Cracking	ASTM C 793
Application temperature	5°C – 40°C	
Service temperature range	-40°C – 90°C	
VOC	13 % - 167 g/L	Directive 2004/42/EG

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

Product description

Soudaflex 40FC is a high quality, elastic, 1-component sealant based on polyurethane.

Properties

- Very easy to apply
- Permanently elastic after curing
- Excellent resistance to UV radiation
- Very good adhesion on many materials
- Excellent resistance to many chemicals

Applications

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

Packaging

Colour: white, black, teak, grey, concrete grey
Packaging: 310 ml alu cartridge, 300 ml sausage, 600 ml sausage

Shelf life

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

Substrates

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

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

Surface preparation: Apply Primer 100 on porous substrates. Always use Primer 100 on natural stone, no primer on non-porous substrates. All smooth surfaces can be treated with Soudal Surface Activator.

There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every substrate.

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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Revision: 10/01/2019**Page 2 from 2****Joint dimensions***Min. width for bonding:* 2 mm*Min. width for joints:* 5 mm*Max. width for bonding:* 10 mm*Max. width for joints:* 30 mm*Min. depth for joints:* 5 mm

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

Application method*Application method:* With manual- or pneumatic caulking gun.*Cleaning:* Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).*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 the packaging label and safety data sheet for more information.

Remarks

- When painted with oxidative drying paints disturbances in the drying of the paint may occur (we recommend to do a compatibility test before application).
- Soudaflex 40FC has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- It is recommended to do a compatibility test prior to application.
- 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 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.
- Soudaflex 40FC cannot be used as a glazing sealant.

Meets:

ASTM C 920, Type S, Grade NS, Use T & NT, M, A, and O, Federal Specification TT-S-00230C, Type II, Class B.

Environmental clauses*Leed regulation:*

Soudaflex 40FC 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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