Technical datasheet

Soudaflex 40FC

Product description

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



Properties

- Very good adhesion on many materials
- Permanently elastic after curing
- Good UV resistance
- Excellent resistance to many chemicals
- Non staining on natural stone

Applications

- Sealing and bonding applications in the building industry.
- Strong elastic bonding in vibrating constructions.
- Sealing of shrinking joints in concrete floors
- Bonding of roof tiles
- Bonding in the construction industry

Technical data

Base		Polyurethane
Consistency		Stable paste
Curing system		Moisture curing
Skin formation		ca. 25 minutes
Curing speed		ca. 3 mm/24h
Density		ca. 1.30 g/ml
Maximum allowed joint movement		± 20%
Elasticity modulus	ISO 37	ca. 0.80 N/mm²
Elastic recovery	ISO 7389	> 80%
Elongation at break	ISO 37	ca. 700%
Maximum tension	ISO 37	ca. 1.70 N/mm²
Hardness		ca. 40 ± 5 Shore A
Application temperature		+5°C -> +35°C
Temperature resistance		-30°C → +90°C

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
  The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
  Porous surfaces should be primed with Primer 100. If needed non porous surfaces can be prepared with Soudal Surface Cleaner (see Technical Data Sheet).

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- Substrate types
  Soudaflex 40FC has no good adhesion or is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

Application method

- Application method
  Apply the product with a manual, pneumatic or accu caulking gun.
- Cleaning method
  Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).
- Finishing method
  With Finishing Solution before skinning.
- Repair method
  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.
Keep the area well ventilated during use and curing of the product.
Dangerous. Respect the precautions for use.

Packaging/Logistics

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

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.

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.

Remarks

- Soudaflex 40FC may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- Soudaflex 40FC has a good UV resistance but can discolour under extreme conditions or after long UV exposure.
- Soudaflex 40FC can not be used as a glazing sealant.
- A total absence of UV can cause a color change of the sealant.
- 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.
- 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.

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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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