SOUDAL

Technical Data Sheet

SOUDAFLEX CONSTRUCTION FC

Technical Data

Basis	Polyurethane
Consistency	Stable paste
Curing System	Moisture curing
Specific Gravity	1.30
Skin formation time (23°C/50% R.H) (min)*	Ca. 25
Curing Rate (23°C/50% R.H) (mm/24h)*	Ca. 3
Hardness, Shore A, points**	40±5
Tensile Strength (N/mm²) (ISO 37)**	1.70
Elogation at Break (ISO 37)** (%)	700
Elasticity Moduls 100% (N/mm²) (ISO 37)**	0.80
Maximum allowed distortion (%)	±20
Elastic Recovery (ISO 7389)**(%)	>80
Temperature Resistance (°C)	-30 →90
Application Temperature (°C)	-5 → 35

*These values may vary depending on environmental factors such as temperature, moisture and the type of substrate.
**This information relates to fully cured products.

Product description
Soudaflex Construction FC is a high quality, one component polyurethane sealant with high modulus for a wide range of sealing and bonding applications

Characteristics
- Very easy application
- Stays elastic after curing
- Excellent resistance to UV radiation
- Very good adhesion on many materials
- Excellent resistance to many chemicals
- Especially developed for concrete applications

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

Packaging
Colour: white, black, grey,
Packaging: sausage 600 ml

Shelf life
12 months from date of manufacturing in unopened packaging stored in a cool and dry place at recommended temperatures between +5°C and +25°.

Health- and Safety Recommendations
Apply the usual industrial hygiene. Consult the label for more information.

Substrates
Substrates: all usual building substrates, metals, polyesters, ...
Nature: rigid, clean, dry, free of dust and grease.
Surface preparation: Apply Primer 100 on porous substrates. Prepare non-porous surfaces with a Soudal activator or cleaner (see Technical Data Sheet).
There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion and compatibility test on every surface.

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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
Application method: With a manual, pneumatic or accu 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.

Remarks
- Soudaflex Construction FC is paintable with most common paints. Due to the wide variety of lacquers and paints, a compatibility test is always recommended.
- 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.
- Soudaflex 40FC can not be used as a glazing sealant.
- 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 Construction FC conforms to the requirements ofLEED. 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.