16 February 2024

SOUDAFLEX 36FL

Technical Data

Basis	Polyurethane+
Consistency	Paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 60 min
Curing speed* (23°C/50% R.H.)	Ca. 3 mm/24h
Hardness**	Ca. 35 ± 5 Shore A
Density	Ca. 1.30 g/mL
Elastic recovery (ISO 7389)**	> 80%
Maximum allowed distortion (ISO 11600)	± 25%
Max. tension (ISO 37)**	Ca. 2.90 N/mm² (MPa)
Elasticity modulus 100% (ISO 37)**	Ca. 0.47 N/mm² (MPa)
Elongation at break (ISO 37)**	> 900%
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 36FL is a high quality, flexible, 1-component sealant for floor joints based on Polyurethane+ technology developed by Soudal.

Properties

- Very easy to apply
- Permanently elastic after curing
- No bubble formation within sealant in high temperature and humidity applications.
- Very good adhesion on many materials
- No staining on porous surfaces such as natural stone
- Good resistance to UV radiation
- Excellent resistance to many chemicals
- Paintable

Applications

- Sealing of shrinking joints in concrete floors.
- Sealing of floor joints.
- All usual horizontal building, connection, expansion and dilatation joints.
- Excellent for sealing of joints in environments where fuel and oil contact occurs.
- Hydraulic fluids, lubricants, oils – Fuels (petrol and gasoline): Resistant to splash and spillage contact. Can withstand long term intense contact-immersion (up to 1week) in combination with **Primer 100**.

Packaging

Colour: concrete 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, ...
Nature: rigid, clean, dry, free of dust and grease. In case of cast concrete remove cement skin first.
Surface preparation: Soudaflex 36FL 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

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recommend a preliminary adhesion test on any substrate.

Joint dimensions

	JOINT	
	Width	***Depth***
Min	*5 mm*	*5 mm*
Max	*30 mm*	
Recommendation sealing jobs: joint depth = 0.8 joint width. Use closed-cell PE backing material in order to adjust the joint depth.		

Application method

Use masking tape if necessary. Apply Soudaflex 36FL evenly without air inclusions into the joint. Remove masking tape before skin formation.
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.

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

- 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 36FL 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.
- Chemical resistance strongly depends on concentration, temperature and exposure time. Some chemicals may lead to a change in volume, mechanical properties or the visual aspect of the 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

Standards and certificates

- Tested and conform DIN EN 14187-4: Change in mass and volume following storage in chemical liquids.
- Tested and conform DIN EN 14187-5: Resistance to hydrolysis.
- Tested and conform DIN EN 14187-6: Adhesion/cohesion properties following storage in chemical liquids.
- Soudal Technical Bulletin No. 2017-WD- 0101 dd. April 6, 2017 regarding chemical resistance.

Environmental clauses

Leed regulation:
Soudaflex 36FL 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.