SOUDAL

Technical datasheet

# Soudaflex FR

## Description

Soudaflex FR is a high-quality, elastic, one-component sealant based on polyurethane. Soudaflex FR is fire resistant according to EN 1366-4.


## Properties

- Easy to apply
- Long open time
- Good sag resistance
- Permanently elastic after curing
- Can be painted with most types of paint systems
- Good weather resistance
- Excellent resistance to many chemicals
- Good UV resistance

## Application

- Fire retardant expansion and connection joints in the construction industry

## Technical data

| | | |
|---|---|---|
| Base | | Polyurethane Consistency |
| Consistency | | Stable paste |
| Curing system | | Moisture curing |
| Specific Gravity (g/ml) | | ca. 1.30 |
| Skin formation (minutes) | | 60 to 150 |
| Curing speed (mm/24h) | | 2 to 3 |
| Slump (mm) | | < 1.5 |
| Hardness (Shore A, Points) | ISO 868 / ASTM D2240 | 49 ± 5 |
| Maximum allowed joint movement (%) | | ± 20 |
| Modulus at 100% Elongation (N/mm2) | | Approx. 1.5 |
| Elongation at Break (%) | ISO 37 / ASTM D412 | ± 370 |
| Tensile Strength ($N/mm^2$) | | ca. 1.60 |
| Temperature Resistance (°C) | | -30 to +90 |
| Application Temperature (°C) | | +5 to +35 |

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.



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Always use Primer 100 on natural stone.

- Substrate types

  Soudaflex FR has a good adhesion to all usual building substrates, brick, concrete, metal, etc. Soudaflex FR is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates.

  We recommend a preliminary adhesion and compatibility test on every surface.

## Joint Size

Minimum width for joints: 5 mm
Maximum width for joints: 20 mm
Minimum depth for joints: 5 mm

Recommendation for sealing jobs: joint width = joint depth.

## Application method

- Application method

  Apply the product with a manual, pneumatic or a battery-operated caulking gun.

- Cleaning method

  Swiftly clean with Soudal Surface Cleaner or with Soudal Swipex Wipes, immediately after use. Cured product can only be removed mechanically.

- Finishing method

  With Soudal 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: Grey
Packaging: 600g Sausage
Shelf life: 12 months from the date of production. The product must be stored in its original, undamaged, and sealed packaging under dry conditions, protected from direct sunlight, and at temperatures between +5°C and +25°C.

## Environmental Clauses

- Leed regulation: Soudaflex FR conforms to the requirements of LEED. Low-Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Compiles with USGBC LEED 2009 Credit 4,1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.



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## 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 FR has a good UV resistance but can discolor under extreme conditions or after long UV exposure.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- 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.
- 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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