

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/mm ²) | | 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.



Soudaflex FR

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.



Soudaflex FR

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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