



Soudaseal FR

Product description

Soudaseal FR is a high-quality, fire-resistant, smoke-tight, neutral, elastic, one-component joint and adhesive sealant based on SMX-polymer.

Properties

- High level of fire retardation
- Permanently elastic after curing (without fire load)
- Very good adhesion on many materials, even if slightly moist
- Good mechanical characteristics
- Easy to apply
- Good UV resistance
- Can be painted
- No bubble formation within sealant in high temperature and humidity applications
- Solvent-free



Applications

- Fire retardant expansion and connection joints in the construction industry.
- Sealing of fire-retardant joints in prefab buildings and skyscrapers.
- Elastic structural bonding in automotive applications: buses, trains, trucks, caravans or trailers, ...
- Is part of the 'Soudal Fire Range' assortment for penetration seals and joints.

Technical data

Base	SMX Hybrid Polymer	
Consistency	Stable paste	
Curing system	Moisture curing	
Skin formation	ca. 10 minutes	
Curing speed	ca. 2 mm/24h	
Density	ca. 1.57 g/ml	
Maximum allowed joint movement	± 25 %	
Elasticity modulus	ISO 37	ca. 0.33 N/mm ²
Elastic recovery	ISO 7389	> 70 %
Elongation at break	ISO 37	ca. 430 %
Maximum tension	ISO 37	ca. 0.82 N/mm ²
Hardness	33 ± 5 Shore A	
Application temperature	+1°C → +30°C	
Temperature resistance	-40°C → +90°C	
Fire resistance	≤ 240 minutes	

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

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Substrates

- Substrate condition
The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
Porous surfaces should be primed with Primer 150. If needed non porous surfaces can be prepared with a Soudal activator or cleaner (see Technical Data Sheet).
- Substrate types
Soudaseal FR has a good adhesion to following substrates: all usual building substrates, lacquered wood, PVC, plastics, etc.. 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, Once opened the product has only a limited shelf life.

Standards and certificates

- European Technical Approval Soudaseal FR - ETA 13/0334
- CE-marked (BCCA - EC conformity CPR)
- IFT certificate available for sound insulation of sealants in joints
- Various test and classification reports in various accredited testing institutes: IFT Rosenheim, ITB Poland, Warrington Fire Gent, Warrington Fire Australia, Efectis Netherlands, Efectis France, CSTB France, CSI Italy.
- Testresults for penetration seals and/or joints with Soudaseal FR are freely accessible in the 'Fire Range Application manual Penetration seals and Joints' on the Soudal Website. The corresponding certificates can be obtained through the Soudal sales representatives or trough the Soudal Website.

Joint dimensions

- Consult the 'Fire Range Installation Instructions Openings and Sealing' on the Soudal website for the correct joint dimensions depending on the required fire resistance.

Environmental clauses

- Leed regulation: Soudaseal FR 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.

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Remarks

- Soudaseal FR may be overpainted with water based paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Soudaseal FR can not be used as a glazing sealant.

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.