



# Soudaseal FR

## 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

## Application

- 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, ... etc.
- Part of 'Soudal Fire Range' assortment for penetration seals and joints



## Technical data

Base		SMX Hybrid Polymer
Consistency		Stable paste
Curing system		Moisture curing
Specific Gravity (g/ml)		ca. 1.57
Skin formation (minutes)		ca. 10
Curing speed (mm/24h)		ca. 2
Elastic recovery (%)	ISO 7389	> 70
Hardness (Shore A, Points)	ISO 868 / ASTM D2240	33 ± 5
Maximum allowed joint movement (%)		± 25
Modulus at 100% Elongation (N/mm <sup>2</sup> )		Approx. 0.33
Elongation at Break (%)	ISO 37 / ASTM D412	ca. 430
Tensile Strength (N/mm <sup>2</sup> )		ca. 0.82
Temperature Resistance (°C)		-40 to +90
Application Temperature (°C)		+1 to +30

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 Soudal Activator or a Surface Cleaner
- **Substrate types**  
Soudaseal FR has a good adhesion to all usual building substrates, lacquered wood, PVC, Plastics, etc. Soudaseal FR is not suitable for PE, PP, PTFE (Teflon®), bituminous substrates.

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

## 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 Resenheim, ITB Poland, Warrington Fire Gent, Warrington Fire Australia, Efectis Netherlands, Efectis France, CSTB France, CSI Italy.

## 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: White, Grey, Concrete 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.



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## Environmental clauses

- Leed regulation: Soudaseal 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.

## 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 supersedes all earlier versions. The information provided is based on our tests and practical experience and is supplied in good faith as general guidance only, without creating any liability. Since materials, substrates, application design, and processing conditions vary widely and are outside our control, we cannot accept responsibility for the results obtained from use of this information. The user must verify suitability for the intended application through their own testing, and preliminary trials are recommended in all cases. The manufacturer reserves the right to change product specifications without prior notice.