

Soudaseal FR

Revision: 20/07/2016

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Technical data

Basis	SMX polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (20°C / 65% R.H.)	Ca. 10 min
Curing speed * (20°C / 65% R.H.)	Ca. 2 mm/24h
Hardness	20 +/-5 Shore A
Density	1,57 g/ml
Elastic recovery (ISO 7389)	> 70 %
Maximum allowed distortion	± 25 %
Temperature resistance	-40 °C → 90 °C
Max. tension (DIN 53504)	0,82 N/mm ²
Elasticity modulus 100% (DIN 53504)	0,33 N/mm ²
Elongation at break (DIN 53504)	430 %
Application temperature	1 °C → 30 °C
Fire resistance (EN 13501-2) **	<= 240 min



(*) these values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

(**) this value is dependent on the joint- or penetration seal configuration and the joint- or penetration seal dimensions

Product description

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

Properties

- High level of fire retardation
- Permanently elastic after curing (without fire load)
- Outstanding bond strength on nearly all surfaces, even on slightly wet surfaces
- Very good mechanical characteristics
- Easy to use and apply, also under difficult circumstances.
- Excellent acoustic properties
- Colourfast and UV resistant
- Paintable
- No bubble formation within sealant (in high temperature and humidity applications)
- Does not contain isocyanates, solvents or halogens

Applications

- Fire retardant expansion and connection joints in the construction industry.
- Fire-resistant sealing of connection joints.

- Sealing of fire-retardant joints in prefab buildings and skyscrapers.
- Flexible connections in automotive applications.
- As part of the 'Soudal Fire Range' assortment for penetration seals and joints.
- Meets Australian Standard AS1530.4-2014 The fire resistance performance of gap sealing systems in aerated concrete walls, from Exova Warringtonfire. Test report No. 23751-02. This gives automatic approval for solid concrete wall.

Packaging

Colour: grey

Packaging: 600 ml sausage, other packaging on request

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.

Remark: 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. 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. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Chemical resistance

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual building substrates, treated wood, PVC, plastics

Nature: clean, dry, free of dust and grease.

Surface preparation: Porous surfaces should be treated with Soudal Primer 150. All smooth surfaces can be treated with Soudal Surface Activator. We recommend a preliminary adhesion test on every surface.

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.

Application method

Application method: With manual or pneumatic caulking gun.

Surface cleaning: For best performance, clean with white spirits or Soudal Cleaner & Degreaser prior.

Application: Apply into the joint and tool prior to skin formation.

Clean up: Uncured with Soudal Swipex, Cleaner & Degreaser, white spirits. Cured with Sealant Remover.

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material

Notes: Avoid that soapy solution comes between the joint edges and sealant (to prevent adhesion loss).

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

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 cannot be used as a glazing sealant.

Standards and certificates

- European Technical Approval Soudaseal FR - ETA 13/0334
- CE-marked (BCCA - EC conformity CPR)
- Joint Sound Reduction Acoustic Test by IFT
- 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.
- Test results 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 through the Soudal Website.
- Meets Australian Standard AS1530.4-2014
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