Soudaseal FR

Technical data

Basis	SMX polymer
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 10 min
Curing speed * (23°C/50% R.H.)	Ca. 2 mm/24h
Hardness**	33 ± 5 Shore A
Density	1,57 g/ml
Elastic recovery (ISO 7389)**	> 70 %
Maximum allowed distortion (ISO 11600)	± 25 %
Max. tension (ISO 37)**	0,82 N/mm²
Elasticity modulus 100% (ISO 37)**	0,33 N/mm²
Elongation at break (ISO 37)**	430 %
Temperature resistance**	-40 °C → 90 °C
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 information relates to fully cured product.
(**) 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, 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.
- 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.
- 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.

Packaging

Colour: grey
Packaging: 600 ml foil bag, 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.

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

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Nature: rigid, 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. A preliminary adhesion test on every surface is recommended.

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.
Cleaning: Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing). Or with Soudal Swipex.
Finishing: With a soapy solution or Soudal Finishing Solution before skinning.
Repair: With the same material.

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 can not 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 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.
- 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.