

Soudaseal FR

Revision: 09/05/2007

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Technical Characteristics:

Base	SMX-technology™
Consistency	Stable Paste
Curing System	Moisture Cure
Skin Formation (*) (20°C/50% R.V.)	Approx. 10 min.
Curing Rate (*) (20°C/50% R.V.)	2 mm/24h
Hardness (DIN 53505)	20 ± 5 Shore A
Specific Gravity (DIN 53479)	1,57 g/ml
Maximum Deformation	± 25 %
Elasticity Modulus 100 % (DIN 53504)	0,33 N/mm ²
Elongation at break (DIN 53504)	430 %
Elastic recovery (ISO 7389)	> 70 %
Temperature Resistance	-40°C to +90°C
Tear Strength (DIN 53504)	0,82 N/mm ²

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

Product:

Soudaseal FR is a high quality single component joint sealant with high adhesive strength and excellent elasticity. It is based on MS-Polymer®, chemically neutral and fully elastic. For use in high movement joints in construction, automotive, marine and aerospace areas where a tough flexible rubber is required with good fire retardant characteristics .

Characteristics:

- High bond strength on nearly all surfaces
- Excellent adhesion on porous substrates
- High performance mechanical properties
- Flexible elastic rubber
- Straightforward application even in adverse conditions
- No bubble formation within sealant (in high temperature and humidity applications)
- Primerless adhesion on many substrates (except where water pressure may occur)
- Very easy to tool and finish
- Colour stability and UV resistant
- Ecological advantages – free of isocyanates, solvents, and acids
- Minimal health and safety considerations
- Overpaintable with all water based paints and many other systems
- Excellent weather resistance in all climates

- No staining of porous materials such as natural stone, granite (for marble please test a small area)

Applications:

Expansion and connection joints in the building industry
Sealing of joints in prefabricated buildings
Movement joints in high rise constructions
Sealing between window and door frames
Flexible joints in marine applications
Flexible bonding in caravans and mobile structures
Exposed movement joints on all usual building substrates

Packaging:

Colour: white, grey
Packaging: cartridge 290 ml; foil bag 600 ml (other packaging on request)

Shelflife:

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

Remark: 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. In every case it is recommended to carry out preliminary experiments.

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Substrates:

Nature: clean, dry, free of dust and grease

Priming: For porous surfaces Primer 150 may be applied. Surface Activator may be used on non-porous surfaces.

We recommend preliminary compatibility tests previous to application.

Joint dimensions:

Minimal width: 5 mm

Maximal width: 30 mm

Minimum depth: 5 mm

Recommendation: width = 2 x depth

Application:

Method: Manual- or pneumatic caulking gun

Application temperature: +5°C until +35°C

Cleaning: White Spirit immediately after application and before curing

Tooling: soapy solution before skin formation

Repair with: Soudaseal FR

Resistance to chemical agents:

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis

Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrogens

Health- and Safety Recommendation:

Apply the usual industrial hygiene.

Remarks:

Soudaseal FR may be overpainted, however due to the large number of paints and varnishes available we strongly suggest a compability test before application. The drying time of alkyd resin based paints may increase.

Approvals:

- CSTB report no RS03-007A, thermal isolation of 270 minutes in 30 mm joint and 240 minutes in 10 mm joint
- ODICE-ISO R834 at least 2 hours (10 and 30 mm joints)
- Warrington: Assessment Report 139271 (BS476: Part 20: 1987)
- Italy: R.E.I. CSI 1125 RF: 180 min (10 mm joint in 100 mm thick wall)

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