SOUDAL

Technical Data Sheet

SOUDASEAL FR

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/mm²
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/mm²

(*) 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.

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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.

Official tests:
- 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)

Current Approvals:

- Test Report N°13492B Warringtongent
- NBN 713.020 – EN 1366-4
  - Belgium, UK, Ireland, portugal
  - France PV de classemant n°09-A-276
  - Netherlands 2009 efectisR0703/LZS/TNL
  - Spain Afiti N°1882T09
- Poland ITB NP 02491.1
- Poland ITB NP 02491.2

Test Results – Test Report Report 13492 Warringtonfiregen:

Wall Thickness	Width of Joint	Depth of Joint	Application	Fire Rating
200mm Cellular concrete	15mm	15mm	One sided	Rating Ei 240
200mm Cellular concrete	30mm	20mm	doublesided	Rating EI 240
200mm Cellular concrete	30mm	20mm	One sided icw Soudafoam FR	Rating EI 240
200mm Cellular concrete	25mm	20mm	One sided icw Soudafoam FR horizontal	Rating EI 240