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**SOUDAFOAM FR**

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**Technical data:**

Base	Polyurethane
Consistency	Stable foam
Curing system	Moisture-cure
Skin formation (20°C/65% R.H.)	Ca. 10 minutes
Drying time (20°C/65% R.H.)	Tackfree after 25 min.
Curing rate (20°C/65% R.H.)	2 h for a 30 mm bead
Yield	1000 ml yields ca 35 L cured foam when extruded in beads
Shrink	None
Post expansion	None
Cellular structure	>70 % closed cells, fine cellular structure
Specific gravity	Ca. 27 kg/m <sup>3</sup> extruded, fully cured
Temperature resistance	-40°C to +90°C when cured
Colour	light red

**Product:**

Soudafoam FR is a single-component, self-expanding, ready to use polyurethane foam with propellants which are completely harmless to the ozone layer. It has a fire rating of up to 360 minutes in certain configurations.

**Characteristics:**

- Fire retardant up to 360 min – see table enclosed
- Efficient seal against smoke and gas
- Does not contain CFC's and H-CFC's
- Excellent adhesion on most substrates (except Teflon, PE and PP)
- High thermal and acoustical insulation
- High bonding strength
- Very good filling characteristics
- Excellent stability: no shrink or post expansion
- Can be painted after full cure

**Applications:**

- Fire retardant installation of window- and door frames
- Fire- and smoke retardant sealing of connections between partition walls, ceilings and floors

- Filling of cavities
- All applications where fire retardant characteristics are required such as:
  - sealing of all openings in roof constructions
  - sealing of cable- and pipe penetrations
  - creation of a sound-proof screen
  - bonding of insulation materials
  - application of sound-deadening layers
  - improving thermal insulation in cold store area's

**Packaging:**

Aerosol can 750mL

**Shelf life and Storage:**

- 9 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C.
- Always store can with the valve pointed upwards

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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### Application:

Shake the aerosol can for at least 20 seconds. Put the adapter on the valve. Moisten surfaces with a water sprayer prior to application. The aerosol can be used in all directions. Remove pressure from the applicator to stop. Fill holes and cavities for 80 %, as the foam will expand.

Repeat shaking regularly during application. If you have to work in layers repeat moistening after each layer. Fresh foam can be removed using Soudal Foamcleaner or acetone. Cured foam can only be removed mechanically. Working temperature 5°C to 35°C. (20°C-25°C recommended)

### Health and safety recommendation:

- Apply the usual industrial hygiene
- Wear gloves and safety goggles
- Remove cured foam by mechanical means only, never burn away
- Consult the label for more information

### Remarks:

- Cured PU-foam must be protected from UV-radiation by painting or applying a top layer of sealant (silicone, MS Polymer, acrylic and PU-sealant)

### Approvals:

- Test Report 9279 – University Gent to NBN 713.020, EN 1366-4
- BS 476:Part 20 – Warrington Fire Research Report 113610
- France : CSTB Rapport D'Essai RS00-067
- Italy : CSI Report 1125RF
- Australia Wfra Report 45717 to AS1530.4 and AS 4072.1

### Test Results: Test Report 9297C – University of Gent to EN 1366-4

Wall Thickness	Joint Dimension	Backing material	Flame resistance in minutes
200mm	Width: 11mm Depth: 200mm	None	229 min. Fire Rating EI 180
200mm	Width: 41mm Depth: 200mm	None	110 min. Fire Rating EI 90
100mm	Width: 30mm Depth: 100mm	None	50 min. Fire Rating EI 45
100mm	Width: 10mm Depth: 100mm	None	103 min. Fire Rating EI 90

### Test Results: Fire Test CSTB – RS00-067

Wall Thickness	Joint Dimension	Backing material	Flame resistance in minutes
200mm poured concrete	Width: 10mm Depth: 200mm	None	> 6 hours
200mm poured concrete	Width: 20mm Depth: 200mm	None	> 6 hours
200mm poured concrete	Width: 30mm Depth: 200mm	None	5h 30min
200mm poured concrete	Width: 40mm Depth: 200mm	None	3h 38min

Fire Rating: Draft European Commission Decision RG N170 REV.1

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