
SOUDAFOAM 1K FR

Date: 24/10/03

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Technical Data:

Base	Polyurethane
Consistency	Stable Foam
Curing System	Moisture Cure
Skin Formation	Ca. 10 minutes (20°C/65% R.H.)
Drying time	Tackfree after 25 min.
Curing Rate	2h for a 30mm bead (20°C/65% R.H.)
Yield	1000mL yields 35-40L cured foam when extruded in beads
Shrink	None
Postexpansion	None
Cellular Structure	>70% closed cells
Specific Gravity	Ca. 25kg/m ³ extruded, fully cured
Temperature Resistance	-40°C until +90°C when cured

Product:

Soudafoam 1K FR with CFC-free propellant is a single-component, selfexpanding, ready to use polyurethane foam with propellants which are completely harmless to the ozone layer. It has a fire rating of up to 229 minutes (Test Report 9279).

Characteristics:

- Fire retardant up to 229 minutes – 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 accoustical insulation
- High bonding strength
- Very good filling characteristics
- Excellent stability: no shrink or postexpansion
- Can be painted after full cure

Applications:

Fire retardant installation of window- and door frames

Fire- and smoke retardant sealings of connections between partition walls, ceilings and floors

Filling of cavities

All applications where fire retardant characteristics are required such as:

- sealings of all openings in roof constructions
- sealing of cable- and pipe penetrations
- creation of a sound-proof screen

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.

- bonding of insulation materials
- application of sound-deadening layers
- improving thermal insulation in cold store area's

Packaging:

Colour: light red

Packaging: aerosol can 750mL

Shelflife:

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

Surfaces:

Type: all substrates except PE, PP

State of Surface: clean, free of dust and grease

Preparation: no primer required. Moisten surfaces for improved adhesion, faster curing and denser cellular structure

Application:

Method: aerosol can, shake well before use.

Application temperature: +5°C to +30°C

Clean: with Foam Cleaner before curing

Repair: with Soudafoam 1K FR

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Health- and Safety Recommendation:

Apply the usual industrial hygiene.
Wear gloves and safety goggles.
Remove cured foam by mechanical means only,
never burn away

Approvals:

- Test Report 9279 – University Ghent to NBN 713.020
- BS 476:Part 20 – Warrington Fire Research Report

Remarks:

- always moisten surfaces in order to improve curing and cellular structure
- cured PU foam must be protected from UV-radiation by painting or applying a top layer of sealants
- fill cavities only partly (50%) as foam will continue to expand during the curing time

Test Results: Test Report 9297C – University of Ghent

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 – 10 May 2000

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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