

fischer FIRE STOP Foam

Fire Rated Foam

Data Sheet



Product

fischer FIRE STOP foam with CFC-free propellant 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 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 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

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Packaging

- Colour : Light Red
- Packaging : 750 ml aerosol can

Storage

- 12 months in unopened packaging in a dry and cool storage place

Technical Data

- Base : Polyurethane
- Consistency : Stable Foam
- Curing System : Moisture Cure
- Skin Formation : 10min at 20°C/65% RH
- Drying Time : tack free after 25 min
- Curing Rate : 2h for a 30mm bead (20°C/65% RH)
- Yield : 1000 ml yields 35-40l cured foam when extruded in beads
- Shrinkage : none
- Post expansion : none
- Cellular Structure : >70% closed cells
- Specific Gravity : ca 25kg/m³ extruded, fully cured
- Temperature Resistance : -40°C until +90°C when cured

Surfaces

- Substrate : all substrates except PE, PP
- State of Surface : Clean, Free of Dust and Grease
- Primer : No Primer required. Moisten surfaces for improved adhesion, faster curing and denser cellular structure.

Application

- Application Method : Aerosol can, shake well before use
- Application Temperature : +5°C until +30°C
- Clean with : fischer Foam Cleaner before curing
- Repair with : fischer Fire Stop foam

Transport

- Road : Aerosol Class 2.5a Rand 2201
- Maritime : Class 2, Aerosol, UNNr 1950
- Air : Pkg Grp III, UNNr 1950, Class 2&6.1

Labeling

- Symbol : Xn – Harmful, F-highly inflammable
- R-sentences : 20, 42, 36/37/38
- S-sentences : 26, 28, 38, 45
- Contains : Diphenylmethane-4,4' diisocyanate

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· Others : Contains Isocyanates. See instructions of the manufacturer. Protect from direct sunlight and do not expose to temperatures above 50°C. Do not pierce or burn after use. Do not extrude towards open fire or hot surfaces. Keep away from ignition sources – do not smoke. Keep out of reach of children. When application is insufficiently ventilated, an explosive air-vapour mixture can be formed.

Safety regulations

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

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 sealant.
- Fill cavities only partly (50%) as foam will continue to expand during the curing time.

Approvals

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

Test Results : Test report 9279 C – University of Ghent

Thickness of wall	Joint Dimension	Backing Material	Flame resistance in Minutes.
200 mm	Width : 11mm Depth : 200 mm	None	229 min Fire rating EI 180
200 mm	Width : 41mm Depth : 200 mm	None	110 min Fire rating EI 90
100mm	Width : 31mm Depth : 100 mm	None	50 min Fire rating EI 45
100mm	Width : 11mm Depth : 100 mm	None	103 min Fire rating EI 90

Fire Rating: Commission Decision RG N170 REV.1

Test Results : Fire Test CSTB – 10 May 2000

Thickness of wall	Joint Dimension	Backing Material	Flame resistance in Minutes.
200 mm Poured Concrete	Width : 10mm Depth : 200 mm	None	> 6 Hours
200 mm Poured Concrete	Width : 20mm Depth : 200 mm	None	> 6 Hours

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200mm Poured Concrete	Width : 30mm Depth : 200 mm	None	5 h 30 min
200mm Poured Concrete	Width : 40mm Depth : 200 mm	None	3 h 38 min

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.