



**ICCONS® FOAMFLO®FIRE** is a single-component, self expanding, ready to use polyurethane foam with propellants which are completely harmless to the ozone layer. It is fire rated up to 360 minutes in specific configurations (refer to test reports).

**Characteristics:**

- Fire resistant up to 360 min - (see table over back)
- 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

**Fire Resistant Applications:**

- Fire resistant sealing between concrete walls (vertical penetrations).

**General Applications:**

- Sealing of window and door frames
- 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

**WARNING** For fire rated applications please ensure the technical data for fire rated applications contained in this document is reviewed and approved by a fire design consultant prior to use.

**Technical properties**

Base	Polyurethane
Colour	Light Red
Aerosol Can - Volume	750ml
Consistency	Stable foam
Curing System	Moisture Cure
Skin Formation (20°C/65% R.H.)	10 minutes.
Drying Time (20°C/65% R.H.)	Tack-free after 25 min.
Curing Rate (*) (20°C/65% R.H.)	2 h for a 30 mm bead
Yield	1000 ml yields 35 L cured foam when extruded in beads
Shrink	None
Post expansion	None
Cellular structure	>70 % closed cells, fine cellular structure
Specific gravity	27 kg/m <sup>3</sup> extruded, fully cured
Temperature resistance	-40°C to +90°C when cured
Sound insulation (EN ISO 717-1)	62 dB



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

#### AERATED CONCRETE BLOCK WALL

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

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

#### POURED CONCRETE WALL

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

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

### Approvals

**Test Report 9279** - University Ghent to NBN 713.020, EN 1366-4

**Italy** : CSI Report 1125RF

**BS 476:Part 20** - Warrington Fire Research Report 113610

**Australia** W Fra Report 45717 to AS1530.4 and AS 4072.1

**France** : CSTB Rapport D'Essai RS00-067

### Application

- Shake can well for at least 20 seconds before use.
- Attach supplied foam applicator nozzle to the valve.
- It is recommended to moisten surfaces with water sprayer prior to use in order to improve curing and structure.
- Apply pressure to the applicator. Fill holes and cavities to approx 80% to allow for foam expansion. The aerosol can be used in all directions. Repeat shaking can regularly during application.
- If you have to work in layers repeat moistening after each layer.
- To stop release pressure from applicator.
- Clean any residual fresh foam with FOAMFLO-Cleaner or Immediately and before curing.
- When cured cut away any residual foam with a knife or mechanical means.
- Working Temperature 5°C to 35°C (20°C - 25°C recommended)

### 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)

### 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
- Read and follow instructions of MSDS (material safety data sheet)

### 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

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**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 and submit technical data to designers /certifiers to determine suitability prior to use in application.