



FOAMFLO® FIRE is a one-component, ready to use polyurethane foam for various building sealing applications, e.g. sealing of joints in fire rated walls and suitable for non-fire rated filling and sealing application works on building and construction projects. Fire resistance is tested according to European standard EN 1366-4 and reaction to fire according to standard DIN 4102-1. Fire resistance is also covered by Warringtonfire Fire assessment report FAS200330. FOAMFLO® FIRE does not shrink after curing ensuring risk of deformation of joints and separation from the surface is minimal. FOAMFLO® FIRE adheres well to most materials like wood, concrete, stone, plaster, metal, PVC and polystyrene.

BENEFITS

- Fire resistant up to 240 min – (refer to table)
- 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
- High mechanical strength

FIRE RATED APPLICATION

- Sealing of joints in fire rated vertical walls/penetrations

NON-FIRE RATED APPLICATION

- 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 areas
- Filling and sealing works in places which have heightened requirements concerning building materials reaction to fire properties
- Regular filling and sealing works in construction sector

APPLICATION INSTRUCTION

Application temperature

Air temperature during use:
+5 °C to +30 °C, best results at +20 °C.

Can temperature during application:
+10 °C to +25 °C, best results at +20 °C

Surface preparation

Remove dust, loose particles and grease from the surface. Moisten dry substrates to ensure better results. Protect adjacent surfaces with paper, plastic film or other suitable material.

Part No.	Description	qty	qty
FOAMFLO-FIRE	750mL - FoamFlo® Fire Retardant expanding PU foam straw nozzle manual delivery system	1	12





TECHNICAL DATA

Properties	Value	Unit
Tack free time (TM 1014)	8-12	min
Cutting time (TM 1005)	<45	min
Completely cured in joint, 3x5cm (+23 °C)	<16	h
Curing pressure (TM 1009, moistened surfaces)	<4,5	kPa
Post expansion (TM 1010)	<150	%
Density in joint, 3x10cm (WGM106)	23-27	kg/m ³
Dimensional stability (TM 1004)	<1	%
Temperature resistance of cured foam	-50...+90	°C
Fire resistance class (EN 13501-2)	Up to EI 240	
Fire class of cured foam (DIN 4102-1)	B1	
Tensile strength / elongation (TM 1018, dry surfaces)	>185 / 18	kPa / %
Tensile strength / elongation (TM 1018, moistened surfaces)	>130 / 15	kPa / %
Compression strength (TM 1011, moistened surfaces)	>50	kPa
Shear strength (TM 1012, moistened surfaces)	>40	kPa
Thermal conductivity (EN 12667, TM 1020)	0,033	W/(m·K)
Sound reduction index R _{st,w} (EN ISO 10140)	62	dB
Water vapour permeability (EN 12086)	<0,04	mg/(m·h·Pa)
Foam yield in joint, 3x5 cm (WGM107), per 750 ml filling rate	9	m

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified. These values may vary depending on environmental factors such as temperature, moisture and type of substrates.

FIRE RESISTANCE TESTED ACCORDING TO EN 1366-4 AND RATED ACCORDING TO EN 13501-2:

Fire Resistance Classification	Tested Conditions	Rated Conditions
Fire Resistance Classification	EI 30-V-X-F-W-00 to 40	Joint depth 100mm and over
	EI 45-V-X-F-W-00 to 20	Joint depth 100mm and over
	EI 60-V-X-F-W-00 to 10	Joint depth 100mm and over
	EI 90-V-X-F-W-00 to 60	Joint depth 200mm and over
	EI 120-V-X-F-W-00 to 30	Joint depth 200mm and over
	EI 180-V-X-F-W-00 to 20	Joint depth 200mm and over
	EI 240-V-X-F-W-00 to 10	Joint depth 200mm and over

This classification is valid for the following end use applications:

- The foam shall be used as fire resistant joint seal in joints of concrete, block work and masonry vertical separating elements with density of 650kg/m³ or greater and thickness of 100mm and over.
- Linear joints shall have vertical orientation only and shall be filled throughout. Joint seal shall be fitted flush with the surface of the supporting construction and protected with steel sheet, thickness at least 0,5 mm.

FIRE ASSESSMENT IF TESTED IN ACCORDANCE WITH AS 1530.4:2014 AND ASSESSED ACCORDING TO AS 4072.1:2005

No.	Joint width (mm)	Joint depth (mm)	Fire Resistance Level (FRL)
A	40	100	-/90/30
B	30		-/90/30
C	20		-/90/45
D	15		-/240/45
E	10		-/240/60
F	60	200	-/120/90
G	40		-/180/90
H	30		-/240/120
I	20		-/240/180
J	10		-/240/240

This classification is valid for the following end use applications:

- The foam shall be used as fire resistant joint seal in joints of concrete, block work and masonry vertical separating elements with density of 650kg/m³ or greater and thickness of 100mm and over.
- Linear joints shall have vertical orientation only and shall be filled throughout. Joint seal shall be fitted flush with the surface of the supporting construction and protected with steel sheet, thickness at least 0,5 mm.

APPLICATION METHOD

Hold the foam can in upright position. Screw the applicator (straw) to the foam can valve. Shake the can vigorously at least 20 times. For application, turn the can upside down and press the applicator trigger. Use the applicator trigger to adjust the foam output.

When applying foam in layers moisten slightly between each layer.

CLEANING

Uncured foam can be removed with ICCONS FOAMFLO® CLEANER, cured foam can only be removed via mechanical means.

STORAGE AND SHELF-LIFE

Shelf life is 12 months from production date if stored in unopened packaging in a cool and dry place at +5°C to +30°C.

The foam cans must not be stored above +50 °C, nearby heat sources or in direct sunlight. Store and transport in a vertical position.

LIMITATIONS

The foam does not adhere to Teflon, polyethylene and silicon surfaces. Cured foam is sensitive to UV-light and direct sunlight and therefore must be covered with suitable opaque sealant, filler, paint or other material.

Lighter construction elements must be firmly fixed before application of the foam due to formula's high post expansion.

SAFETY REGULATIONS

Use only in well-ventilated areas. Do not smoke during application! Use protective gear when necessary. Keep out of the reach of children.

See label and safety data sheet (SDS) for more information.

Note: Information presented in this documentation is based on testing carried out by the manufacturer and is presented in good faith. Due to variations in materials and substrates as well as the various application possibilities that are beyond our control, the manufacturer is not liable for results achieved. In any case, it is recommended to test the product suitability at the place of application. Manufacturer reserves the right to modify its products without prior notice.