

# JCP CONSTRUCTION PRODUCTS



## B1 Fire Stop Expanding Foam

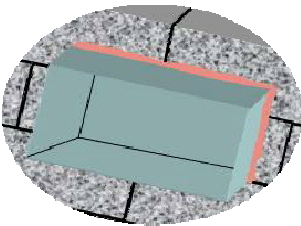
Part No: JF750B1H & JF750B1G

### DESCRIPTION

A one component, polyurethane foam designed for sealing joints in walls and service openings to prevent the passage of smoke and fire. The foam can provide up to 4 hrs fire resistance (see table for details). For improved fire resistance use in conjunction with JCP Fire Rated Mastic (JFIREMAS)

Suitable for use in connection with most construction materials and cures by contact with moisture in the air.

The Foam provides excellent heat resistance, sound absorption, high ageing resistance and is resistant to mould and fungal attack.



### USES

Typical applications include; horizontal and vertical joints, ductwork, pipe work and services voids through walls and floors and sealing around doors and windows. The foam can also be used for sealing gaps in building heat insulation and fixing and insulation of wall panels

### LIMITATIONS

Polyurethane foam will not adhere to polythene, silicone and Teflon

### APPLICATION

**Only use in temperatures between +5°C and +30°C**

1. Surfaces to be free from grease, dust and loose material
2. Moisten surfaces well before use, this improves adhesion and cell structure of the cured foam
3. Shake can well before and at intervals during use.
4. Remove cap and attach adaptor nozzle (Hand Held) or screw into applicator (Gun applied)
5. Turn the can upside down
6. Fill the cavity approximately half full and spray the foam with water. For large voids build up foam in layers and spray foam with water between each layer.

### NOTES

**FIXING:-** When fixing door and window frames use wedges to hold the frame in place until the foam is fully cured, approx 24 hours

**FINISHING:-** Cured foam can be cut, sanded, plastered and painted. The foam should be painted or sealed within 7 days if exposed sunlight as it is not resistant to ultra-violet light.

**CLEAN UP:-** Uncured foam can be removed with JCP Polyurethane cleaner (JF500C). Cured foam can only be removed mechanically



### SALES OFFICES

Dartford	01322 277733	Stone	01785 819819
Elland	01422 370121	Swindon	01793 527829
Milton Keynes	01908 330050		



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### TECHNICAL DETAILS

	GUN FOAM	HAND HELD FOAM
Composition	4.4'-diisoyanate of diphenylomethane, propellants	
Colour	Pink	
Working temperature (of base)	+5°C to +30°C	
Container temperature	+5°C to +30°C	
Thermal stability of cured foam	-60°C to +100°C	-50°C to +100°C
Density	19 to 24 kg/m <sup>2</sup>	20 to 25 kg/m <sup>2</sup>
Dimensional stability	3 to 5% (at 23°C , 50% RH, 24 hours)	
Water absorption	2.5% (after 24 hours)	
Strength	0.03MPa (compressive strength) 0.14 MPa (tensile strength)	
Thermal conductivity factor	0.036 W/mK	
Flammability	B1 (DIN4102)	
Gap Width to DIN4102	30mm wide x 100mm deep	30mm wide x 80mm deep
Solvent (before hardening)	Acetone	
Tack free time	6 to 9 mins (23°C/RH 50%)	10 to 12 mins (23°C/RH 50%)
Cutting time	25 to 35 mins (23°C/RH 50%)	35 to 45 mins (23°C/RH 50%)
Time to complete hardening	24 hours	
Yield	35 to 42 dm <sup>3</sup> (23°C/RH 50%)	

### TEST RESULTS

Tested in accordance with EN 13501-2:2008

#### 200mm Wall thickness

Gap Width mm	Resistance to fire class (Mins)	
	GUN FOAM	HAND HELD FOAM
10	240	240
20	180	180
30	120	120

#### 240mm Wall thickness

Gap Width mm	Minimum Integrity/Flaming (Mins)	
	GUN FOAM	HAND HELD FOAM
10	240	240
20	120	240
30	180	180

Test walls were constructed from aerated concrete blocks and results can also be applied to construction elements made of concrete, concrete blocks and solid masonry