

# Technical Data Sheet

Date of compilation: 06/10/2020

## ARC B1 FIRE RATED FOAM

### DESCRIPTION

Arc Fire Foam is a single-part fire-resistant polyurethane foam. This foam hardens with the absorption of moisture from the air. This cured fire-resistant foam has excellent temperature and noise insulation with strong adhesive properties. It adheres to different surfaces apart from PTFE, polyethylene and silicone surfaces. The foam is sensitive to UV-light and sunlight.

#### Advantages and benefits:

- Fire retardant up to max. 180 min.
- Excellent sealing against smoke and gas
- B1 Fire class (DIN 4102-1),
- Yield to max. 42 l
- Strong adhesion to most construction materials
- Time-saving for the builder
- More accurate and efficient application
- Excellent physical properties
- Excellent temperature and noise insulation
- Mould and moisture resistant
- Finished with plaster
- Can be painted over



### MATERIAL

Single-component polyurethane foam. Without CFC, HCFC and HFC (ozone-friendly and does not contribute to the greenhouse effect).

### AREAS OF APPLICATION

Arc Firefoam works excellently for the fire-retarding assembly of window and door frames, fire and smoke retarding sealing of all openings in walls, floors and roofs and other applications where fire-retarding properties are required.

Arc Firefoam adheres to most usual building materials: concrete, brick, plaster, foam polystyrene, PVC, metal and wooden elements.

### AVAILABLE SIZE

Hand Held - 750ml Spray  
Gun Grade - 750ml Spray

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### COLOUR

Pink

### APPLICATION INSTRUCTIONS

Surfaces should be clean and free from loose particles, dust and grease. Wear protective clothing, goggles and gloves.

The Arc Gun Grade Fire Foam can be fixed on the Arc Foam gun. This enables optimal Fire Foam spraying. Shake the can thoroughly 20 times before use. This ensures optimal adhesion of the Fire Foam. After spraying the foam gun can be cleaned with Arc Foam Gun Cleaner.

If using the Hand Held Arc Fire Foam attach the applicator nozzle and shake the can thoroughly 20 times before use. Turn the can upside down and apply pressure gently to the applicator nozzle.

Once cured, foam can be sanded, trimmed and painted over.

### TECHNICAL DETAILS (VALUES OBTAINED AT 23°C AND 50% AIR HUMIDITY)

<b>Basis</b>	Polyurethane
<b>Propellant</b>	Without CFC, HCFC and HFC
<b>Processing temperature</b>	5°C to +30 °C optimal: +15 °C to +20 °C
<b>Density cured foam</b>	25 – 30 kg/m <sup>3</sup>
<b>Skin formation time</b>	12 – 16 min
<b>Time before cutting (30 mm rul)</b>	30 – 40 min
<b>Fully loadable (20 mm rul)</b>	24 hours
<b>Temperature resistance</b>	-40°C/+90 °C
<b>Temperature resistance short time</b>	-40°C/+130 °C
<b>Reaction to Fire DIN 4102-1</b>	B1
<b>Fire-resistance classification EN 1366</b>	EI 20 – EI 180
<b>Volume shrinkage</b>	none
<b>Volume increase</b>	30%
<b>Flash point of hardened foam</b>	400 °C
<b>Tensile strength BS 5241</b>	8 N/cm <sup>2</sup>
<b>Shear strength at 10% DIN 53421</b>	2.5 N/cm <sup>2</sup>
<b>Coefficient of heat conduction</b>	0.034 W/(m·K)
<b>Noise reduction index RST,w</b>	60 dB
<b>Temperature resistance of hardened foam</b>	Long-term: -50 to +90 Short-term: - 65 to +130
<b>Yield (released product)</b>	Approx. 40 litres

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Fire-resistance tested according to European standard EN 1366-4:

<b>Joint depth, mm</b>	100	100	100	100	200	200	200	200
<b>Joint width, mm</b>	40	30	20	10	40	30	20	10
<b>EI, min</b>	45	45	60	60	120	120	150	180

### SAFETY RECOMMENDATIONS

See Safety Data Sheet.

### SHELF LIFE & STORAGE

12 months after filling date. Spray can must be stored and transported in vertical position. Store in a cool and dry place. Store at temperatures of 5 ° C - 25 ° C..

### NOTE

The information contained on this spec sheet is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.

The user must ensure the product's suitability for the application intended and if in doubt should seek a written technical specification for the product's application.