



FFX FIRE-X B1 PU FOAM TECHNICAL DATA SHEET

FFX FIRE-X B1 FIRE RATED GUN FOAM (HH0119123800)

1 – DESCRIPTION

FFX FIRE-X B1 FIRE RATED PU GUN FOAM is a single component, moisture curing, self-expanding, ready to use polyurethane foam with propellants which are completely harmless to ozone layer. It has a fire rating of up to 217 minutes in certain configurations. High quality PU foam recommended for sealing applications where fire resistance is required.

2 – PROPERTIES

- According to EN 1366-4 fire retardant up to 217 min. – see table enclosed.
- Efficient seal against smoke and gas.
- Does not contain CFC's and H-CFC's.
- Excellent adhesion & filling capacity.
- Excellent mounting capacity and stability.
- High yield up to 55 litres depending on temperature and humidity.
- Excellent adhesion on most substrates (except Teflon, PE and PP).
- High filling capacity.
- High thermal & acoustical insulation value.
- Once cured, it can be painted, cut, and trimmed.
- No shrinkage.
- Mould and water resistant.
- Conforms to fire class B1 (DIN 4102).
- Conforms to French A+
- Conforms to the requirements of VOC content specifications in LEED credit EQc4.1 "Low-emitting products" of SCAQMD rule 1168.

3 – APPLICATIONS

All applications where fire retardant properties are required such as:

- Installation of door and window frames.
- Filling and sealing gaps, joints and cavities.
- Filling of penetrations in walls.
- Heat insulation of roof construction.
- Sealing of cable and pipe penetrations.
- Soundproofing and sealing partition walls.
- Bonding of insulation materials.
- Multi-Purpose, adhesion and fixation.



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4 - INSTRUCTIONS

- Application surfaces must be free from dust and grease.
- Application temperature should be between +5 °C and +30 °C.
- To get the best result, the temperature of the can and the room temperature should be between +20°C and +25 °C.
- Shake can 20-30 times until foam is liquid.
- Screw the can onto an applicator gun.
- Always keep the can upside down during application.
- Foam output can be regulated with the trigger and controlled with the adjustment screw on the back of the gun.
- Fill holes and cavities partially as the foam will expand.
- Moistening the surfaces before and after the application ensures faster curing and increase the bonding strength.
- Fresh foam can be removed using FFX Foam Cleaner. Cured foam can only be removed mechanically.

5- PACKAGING

<i>Product</i>	<i>Weight</i>	<i>Package</i>
FFX FIRE-X B1 FIRE RATED GUN FOAM	Gw.850gr [750ml]	12

6- STORAGE AND SHELF LIFE

- 9 months if stored properly.

7- RESTRICTIONS

- To store above +25°C and below +5 °C shortens shelf life.
- The cans must be stored and transported in vertical position.
- To get best result, the cans should be kept in room temperature for at least 12 hours before the application.
- Cured foam will discolour if exposed to ultraviolet light. Paint or coat the cured foam for best results in outdoor applications.
- Working at lower temperatures would decrease foam yield and cause longer curing time.

8- SAFETY (for full details refer to MSDS)

- Contains Diphenylmethane-4,4'-Diisocyanate.
- Irritating to eyes, respiratory system and skin.
- Harmful by inhalation.
- Do not breathe spray/vapour. Use only in well-ventilated areas.
- Wear suitable protective clothing and gloves.
- Pressurized container.
- Keep away from direct sunlight and do not expose temperatures over 50 °C.
- Do not pierce or burn [even after use]
- Keep away from sources of ignition.
- Keep out of the reach of children.



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9- TECHNICAL PROPERTIES

Basis	: Polyurethane Prepolymer
Curing System	: Moisture cure
Specific Gravity	: 19±3 Kg/cm ³ (ASTM D1622)
Tack-Free Time (1 cm width)	: 7±3 min (ASTM C1620)
Cutting Time (1cm width)	: 30-45 min (ASTM C1620)
Cure-Time	: 24 hours
Foam Colour	: Red
Yield	: 40-55 L (ASTM C1536)
Shrinkage	: <5 %
Fire Class of the Cured Foam	: B1 (DIN 4102)
UL Score	: Flame spread: 0 (UL 723) Smoke Development: 5
Thermal Conductivity	: 0,036 W/m.K (at 20°C) (DIN 52612)
Compression Strength	: 0,03 MPa (DIN 53421)
Water Absorption	: Max. 1 vol% (DIN 53428)
Temperature Resistance	: -40°C to +90°C
Application Temperature	: +5°C to +30°C
Can temperature	: +5°C to +30°C

The results were obtained by providing optimum environmental conditions. (Akkim 820P)

Test Results –Efectis ERA Global; EN 1366-4

Wall Thickness	Joint Dimension	Backing Material	Fire Resistance in minutes
200mm	Width: 10 mm Depth: 200 mm	None	217min. Fire rating EI 180
200mm	Width: 30 mm Depth: 200 mm	None	147 min. Fire rating EI 120
100mm	Width: 20 mm Depth: 100 mm	None	64 min. Fire rating EI 60
100mm	Width: 10 mm Depth: 100 mm	None	80 min. Fire rating EI 60