



820

B1 FIRE RATE PU FOAM

Akfix 820, 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 resistance up to 235 minutes, recommended for sealing applications where fire resistance is required.

FEATURES & BENEFITS

- According to EN 1366-4 fire resistance up to 235 min
- 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 liters depending on temperature and humidity.
- High thermal & acoustical insulation value.
- After cured, it can be painted, cut, trimmed.
- Mould and water resistant.
- Conforms to fire class B1 (DIN 4102).

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.
- Bonding of insulation materials.
- Multi-Purpose, adhesion and fixation.

INSTRUCTIONS

- Application surface must be free from dust and grease.
- During the application, the temperature of the can and the room 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 the can well after screwing the adapter on the valve.
- Hold the can upside down and activate the foam by pressing the valve.
- 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 Akfix 800C Foam Cleaner. Cured foam can only be removed mechanically.



Fire Resistant
Gap Filling
& Insulation



STANDARDS

Meets or exceeds the requirements of the following specifications:

- Tested according to EN 1366-4 fire resistance of linear joints in various joint combinations.
- The French VOC requirements for class A+
- The requirements of VOC content specifications in LEED credit EQc4.1 “Low-emitting products” of SCAQMD rule 1168.

RESTRICTIONS

- Storage above +25 °C and below +5 °C shortens shelf life.
- Should be stored and transported in vertical position.
- Should be kept in room temperature for at least 12 hours before the application.
- Cured foam will discolor if exposed to ultraviolet light.
- Paint or coat the cured foam for best results in outdoor applications.

SAFETY

- Contains Diphenylmethane-4, 4'-Diisocyanate.
- Harmful by inhalation. Irritating to eyes, respiratory system and skin. Do not breathe spray/vapour.
- Wear suitable protective clothing and gloves. Use only in well-ventilated areas.
- 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, no smoking.
- Keep out of the reach of children.

STORAGE AND SHELF LIFE

- 9 months if stored properly.

PROPERTIES

Basis	: Polyurethane Prepolymer	
Curing System	: Moisture cure	
Specific Gravity	: 22±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	: 30-45 L	(ASTM C1536)
Post Expansion	: 200-250 %	
Shrinkage	: 0 %	
Fire Class of the Cured Foam	: B1	(DIN 4102)
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.



Test Results –Yıldız Technical University; EN 1366-4

Wall Thickness	Joint Dimension	Backing Material	Fire Resistance in minutes
200mm	Width: 11 mm Depth: 200 mm	None	235 min. Fire rating EI 180
200mm	Width: 41 mm Depth: 200 mm	None	114 min. Fire rating EI 90
100mm	Width: 31 mm Depth: 100 mm	None	52 min. Fire rating EI 45
100mm	Width: 11 mm Depth: 100 mm	None	106 min. Fire rating EI 90

Test Results –Efectis ERA Global; EN 1366-4

Wall Thickness	Joint Dimension	Backing Material	Fire Resistance in minutes
200mm	Width: 11 mm Depth: 200 mm	None	217min. Fire rating EI 180
200mm	Width: 31 mm Depth: 200 mm	None	147 min. Fire rating EI 120
100mm	Width: 21 mm Depth: 100 mm	None	64 min. Fire rating EI 60
100mm	Width: 11 mm Depth: 100 mm	None	80 min. Fire rating EI 60

PACKAGING

Product	Weight	Package
820	1000gr.	12

DISCLAIMER

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