



#### 1 - DESCRIPTION

**Akfix 820P**, 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 235 minutes in certain configurations. High quality PU straw foam recommended for sealing applications where fire resistance is required. PU foam used with an applicator gun and features higher yield, easier application and reusability.

### 2 - PROPERTIES

- According to EN 1366-4 fire retardant up to 235 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 liters depending on temperature and humidity.
- Excellent adhesion on most substrates (except Teflon, PE and PP).
- High filling capacity.
- High thermal & acoustical insulation value.
- After cured, it can be painted, cut, trimmed.
- No shrinkage.
- Mould and water resistant.
- Conforms to fire class B1 (DIN 4102).

### 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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Yeşilbayır Mah. Şimşir Sk. No: 22 Hadımköy - İstanbul/TÜRKİYE 🛮 Tel: 0212 771 🛮 13 71 🕳 Fax: 0212 771 🗗 888 💃 www.akfix.com - info@akfix.com

#### 4 - 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.
- Screw the can onto an applicator gun.
- The output of the foam can be regulated with the trigger and controlled with the adjustment screw on the back side 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 Akfix 800C Foam Cleaner. Cured foam can only be removed mechanically.

#### 5- PACKAGING

Product	Weight	Package
820P	1000gr	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 discolor 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

- 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.
- Keep away from sources of ignition.
- Keep out of the reach of children.

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Yeşilbayır Mah. Şimşir Sk. No: 22 Hadımköy - İstanbul/TÜRKİYE Tel: 0212 771 13 71 Fax: 0212 771 38 88 🔰 www.akfix.com - info@akfix.com

# 9- TECHNICAL PROPERTIES

Basis	: Polyurethane Prepolymer		
Curing System	: Moisture cure		
Specific Gravity	: 19±3 Kg/cm³	(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	: Grey		
Yield	: 45-55 L	(ASTM C1536)	
Post Expansion	: up to 30%		
Shrinkage	: 0 %		
Fire Class of the Cured Foam	: B1	(DIN 4102)	
Thermal Conductivity	: 0,036 W/m.k (at 20°C)	(DIN 52612)	
<b>Compression Strength</b>	: 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 El 180
200mm	Width: 41 mm Depth: 200 mm	None	114 min. Fire rating El 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 El 90

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