

960 Adhesive PU Foam (Straw)

1 - Description

Akfix 960 is a one component aerosol polyurethane adhesive foam curing swiftly with moisture. Providing very fast and powerful adhesion for various construction materials, especially highly recommended for heat insulation systems. It is designed for easy dispensing through the straw adapter included with each can.

2 - Properties

- Powerful adhesion of polystyrene heat panels (XPS and EPS).
- Wall plugging within two hours.
- Economical. Ready to use in aerosol can.
- Up to 9 m² heat insulation panel adhesion for each can.
- Minimum expansion during drying period.
- After dried, no further expansion and shrinkage.
- A lighter material compared to plaster, alternative material, used in heat insulation systems.
- No more extra burden or weight to building.
- High yield up to 45 liters, depending on the humidity and temperature.
- Usable at low temperatures like 0 °C.
- It does not contain any propellant gases that are harmful to the ozone layer.
- Meets the requirements of VOC content specifications in LEED credit EQc4.1 "Low-emitting products" of SCAQMD rule 1168.

3 - Application Areas

- Best for mounting heat insulation panels and filling voids during adhesive application.
- Advised for wooden type construction materials adhesion to concrete, metal etc.
- Applications needed minimum expansion.
- Mounting and isolation for frames of windows and doors.

4 - Product Information

Packaging	750 ml, Gw.850 g.
Shelf Life	15 months
Storage Conditions	Store in cool and dry conditions between +5 °C and +30 °C

Polyurethane Foam must be used within 15 months of the production date, provided it is stored in its original packaging in an upright position (with the valve facing upward) in a dry place at temperatures between +5°C and +30°C. Storage above +30°C or below +5°C shortens the shelf life and negatively affects the product's properties. Foam containers should not be stored at temperatures exceeding +50°C or near open flames. Storing the product in a position other than recommended may cause the valve to jam.

5 - Product Information

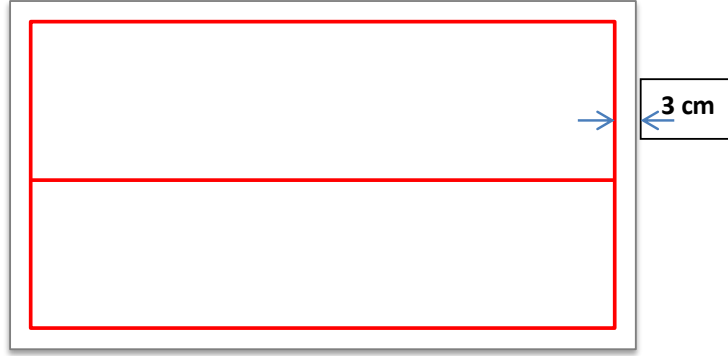
	Method / Conditions	Value
Basis		Polyurethane Prepolymer
Curing Mechanism	Moisture cure	
Specific Gravity	ASTM D1622	22±3 kg/m ³
Full Cure Time		24 hours
Foam Color		Light Pink
Volumetric Yield	ASTM C1536 – TM 1003 : 2013*	35-45 L
Yield		Up to 9m ²
Elongation at break		13,6%
Flammability Class	DIN 4102-1	B3
Expanding Volume (at wall)		Minimal
Thermal Conductivity	DIN 52612 - TM 1020 : 2016*	0,036 W/m.k (at 20°C)
Compression Strength	DIN 53421 – TM 1011 : 2013*	0,03 Mpa
Tensile Strength	ISO1926-79 – TM 1018 : 2015*	0,13-0,15 MPa
Tack-Free Time	ASTM C1620 - TM 1014 : 2013*	6±2 min
Cutting Time	ASTM C1620 – TM 1005: 2013*	20-45 min
Temperature Resistance		Between -40°C and +100°C
Application Temperature	Ambient and Surface	Between 0°C and +30°C

* Producer uses test methods approved by FEICA designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance. FEICA OCF test methods are available at: <http://www.feica.com/our-industry/pu-foam-technology-ocf>. FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers. Further information at: www.feica.eu

6 - Directions for Use

Surface preparation and foam application;

- A. Surface cleaning:** Substrates must be sound quality, clean, dry and free of dust, grease, rust and other contaminants that may affect the adhesion. Sprinkle the working surface with water (with gardening sprinkler for example) at temperature >0°C.
- B. Product preparation;** If the can is too cold / hot then the can should be brought to room temperature, e.g. by immersion in cold / warm water or leaving it in room temperature for at least 24 h. Optimal can temperature is +20 °C.
- C. Foam application:** Put on protective gloves. Shake the can well before use. Screw the can onto the applicator. You may hold the can upside down for application and activate the foam by pressing the valve. Moisturizing the surfaces and the foam improves adhesion and shortens curing time. Vertical gaps should be filled with foam starting at the bottom and moving up. Do not fill the entire gap- the foam will increase in volume. It is recommended to apply the foam from 3 cm inside of the edges and in 2-3 cm strips as shown in figure-1.
- D. Tooling and finishing:** Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints. The manufacturer recommends using the entire can without stopping more than 5 minutes between spraying due to foam drying in the applicator.
- E. Cleaning:** Fresh foam should be cleaned with AKFİX 800C Foam Cleaner. Cured foam can be cleaned barely mechanically.

**Figure-1**

7- Remarks & Restrictions

- Storage above +30°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.
- Dried foam can be wiped out by mechanical force.
- Lower temperatures decreases yield and curing time.

8 - Safety

Contains Diphenylmethane-4,4'-Diisocyanate. Harmful by inhalation. Irritating to eyes, respiratory system and skin. Do not breathe spray/vapor. 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.

9 - Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.