

977P

HVAC Installation PU Gun Foam

1 - Description

Akfix 977P HVAC Installation Gun Foam; is a single-component polyurethane based flexible foam used with an applicator gun and features flexibility, high performance, easier application and reusability. It is designed to dampen vibration at the points of contact of ventilation pipes with the walls and to ensure sealing at pipe joints. The foam has a minimum expansion after application (less than 50%) and is therefore very economical to use. The foam is very elastic and has a high Acoustic Rating value. It does not contain any propellant gases which are harmful to the ozone layer.

2 - Properties

- High elastic recovery ratio.
- High vibration dampening.
- 49,1db acoustic insulation value at 1600hz according to EN ISO 717-1.
- Overcomes extreme physical movements without structural deformation.
- Excellent adhesion & filling capacity.
- Economical consumption thanks to precise application.
- Bright white color is very easy to identify.
- Mold-proof, water-proof and paintable.

3 - Application Areas

- To increase the efficiency of air conditioning devices by preventing leaks.
- In damping the sound arising from vibration.
- Shock and impact absorption.
- As a soundproofing layer at industrial equipment.
- Fixing and insulating of door and window frames.
- Filling and sealing gaps, joints and cavities.
- Filling penetrations in walls.
- Filling all joints in roof constructions.
- Insulating electrical outlets and water pipes.

4 - Product Information

Packaging	Gw.890 g (31,40 oz)
Shelf Life	12 months
Transport Conditions	Transport in a dry place in +5°C (+41°F) and +30°C (+86°F)

Storage Conditions Store in cool and dry conditions between +5°C (+41°F) and +30°C (+86°F)

The foam maintains its usability within 18 months from manufacturing date, if stored in original packaging in vertical position (valve facing up) in a dry place in temperature +5°C (+41°F) to +30°C (+86°F). Storage above +30°C (+86°F) and below +5°C (+41°F) shortens shelf life and properties of product will be affected. Storage of foam cans in temperature exceeding + 50°C (+122°F) or near open flame is not allowed. Storage of the product in a position other than recommended may result in jamming the valve.

5 - Product Information

	Method / Conditions	Value
Basis		Polyurethane Prepolymer
Curing Mechanism		Moisture cure
Full Cure Time		24 hours
Foam Color		White
Volumetric Yield	ASTM C1536-TM 1003 : 2013*	40-45 L
Flammability Class	DIN 4102-1	B3
Compression Strength	DIN 53421 - TM 1011 : 2013*	22,3 kPa (32,34 psi) (%10 compressed)
Tensile Strength	TM 1018 : 2015*	0,065 MPa (9,48 psi)
Elongation at Break		% 36-38
Shear Strength	TM 1012 : 2013*	0,058 MPa (8,42 psi)
Dimensional Stability	ISO2796/86 - TM 1004 : 2013*	±10 %
Acoustic Insulation	EN ISO 717-1	49,1 db at 1600hz
Tack-Free Time	ASTM C1620 - TM 1014 : 2013*	7±2 min
Cutting Time	ASTM C1620 - TM 1005: 2013*	≤40 min
Can/Applicator Temperature	Optimal 20°C	Between +5°C (+41°F) and +30°C (+86°F)
Temperature Resistance	Cured Foam	Between -40°C (-40°F) and +80°C (+176°F)
Application Temperature	Ambient and Surface	Between +5°C (+41°F) and +30°C (+86°F)

* 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 cleaning: Substrates must be sound, clean, dry and free of dust, grease, rust and other contaminants which may affect the adhesion. Sprinkle the working surface with water (with gardening sprinkler for example) at temperature >0°C (+32°F).

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 (68°F).

Foam application: Put on protective gloves. Shake the can well before use. Screw the can onto the applicator. Hold the can upside down and activate the foam by pressing the valve. Always handle the canister with the valve pointing downwards. 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.

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 applications due to foam drying in the applicator.

Cleaning: Fresh foam should be cleaned with AKFİX 800C Foam Cleaner. Cured foam can be cleaned barely mechanically.

7- Remarks & Restrictions

- The curing process is dependent on temperature and humidity. The decrease in ambient temperature within 24 hours after the application below the minimum application temperature can affect the quality and/or correctness of the seal.
- Hurried attempts at preliminary treatment may cause irreversible changes in foam structure and its stability and may affect deterioration of foam utility parameters.
- Quality and technical condition of used applicator affect the parameters of final product.
- The foam should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.
- Working position of the product is valve facing down.
- Cured foam will discolor if exposed to ultraviolet light.
- Paint or coat the cured foam for best results in outdoor applications.
- 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 (122°F). 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.

