

968P

Wood Adhesive PU Gun Foam

1 - Description

A single component, fast curing, polyurethane based special adhesive foam. Provides high bonding strength and fast curing properties. Designed for bonding wooden types, brick, aerated block, stone, natural stone etc. construction elements.

2 - Properties & Features

- A special product which is transforming with collapsing from foam form to gel adhesive form in a couple of seconds after application,
- One component, fast curing, easy to use,
- Extremely high bond strength on wood, concrete and stone variations.
- Suitable to use at interior and exterior applications.
- Conforms to D4 according to DIN EN 204. According to internally tests,
- Low press time. Just 15 minutes,
- Low consumption, economical,
- Remarkable resistance to weather conditions.
- More economical, practical and easy to use.
- Minimum expansion during drying period
- Usable at low temperature like +5°C
- It does not contain any propellant gases which are harmful to the ozone layer

3 - Fields of Application

- To bond wooden types. MDF, Chipboard, Plywood, Laminate, OSB etc.
- At furniture production, wooden door-window production, wooden construction element bonding and decorative material bonding applications,
- As a Marine Adhesive, Montage Adhesive and PU Wood Glue,
- Bonding structural blocks of non-bearing interior walls at construction,
- For use in construction and repair applications where a permanent strong bond is required between porous-porous and porous-nonporous surfaces,

Usable at;

- Concrete pavers/slabs,
- Segmental retaining walls and columns,
- Cast stone copings,
- Landscape blocks and bricks,
- Polystyrene foam board,
- Cellular lightweight concrete elements,
- Ornamental precast,
- Natural & manufactured stone,
- Brick, aerated block, cinder block, bims block, gypsum block and gypsum panel bonding.

4 - Product Information

Packacking 400 ml

Shelf Life 12 months

Transportation Conditions Transport in a dry place in +5°C and +30°C

Storage Conditions Store in cool and dry conditions between +5°C and +30°C

The foam maintains its usability within 12 months from manufacturing date, provided that it is stored in original packaging in vertical position (valve facing up) in a dry place in temperature +5°C to +30°C. Storage above +30°C and below +5°C shortens shelf life and properties of product will be affected. Storage of foam cans in temperature exceeding + 50°C or in vicinity of open flame is not allowed. Storage of the product in a position other than recommended may result in jamming the valve.

5- Technical Data

Foam	Method / Conditions	Value
Basis		Polyurethane Prepolymer
Curing Mechanism	Moisture cure	
Full Cure Time		24 hours
Foam Color		Light Yellow
Metric Yield		71 meters in (1 cm) bead
Flammability Class	DIN 4102-1, EN 13501-1	B3, F
Tack-Free Time	ASTM C1620 - TM 1014 : 2013*	5 – 8 min.
Pressing Time		15 – 20 min.**
Shear Strength	EN 12090 - TM 1012 : 2013*	After 15 min: 100 kgf/cm ² After 24 hours: 130 kgf/cm ² After 7 days: 160 kgf/cm ²
Can/Applicator Temperature	Optimal 20°C	Between +5°C and +30°C
Temperature Resistance	Cured Foam	Between -40°C and +90°C
Application Temperature	Ambient and surface	Between +5°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

**Pressing time depends on ambience conditions (temperature, humidity etc.) and porosity of the surfaces to be bonded.

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 which 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 hours. 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. 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.

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 AKFIX 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 in other position than "valve facing down" will decrease foam's efficiency.
- Cured foam will discolor if exposed to ultraviolet light.
- 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.