

Technical Data Sheet (TDS)

AOFENG®

M3 Grade General Purpose PU Foam Sealant

TYPICAL PROPERTIES

Parameter	Value / Description
Color and Appearance (Visual Inspection)	After curing, it appears as white/light yellow foam (visual inspection)
Density (After Curing)	22 kg/m ³
Curing Type	Moisture Curing
Curing Time	Tack-Free Time: 10-30 minutes. Full Curing Time: 24 hours (depending on temperature and humidity)
Cutable Working Time	Approximately 20-30 minutes (at 25°C temperature and 50% humidity)
Linear Meter	Approximately 18 meters (for a 750mL product, sampled with a caulking gun, with a sample strip width of approximately 4 cm and height of approximately 2-3 cm)
Tensile Bond Strength	Approximately 88 kPa (tested on aluminum plates under standard conditions, no water immersion)
Shear Strength	Approximately 96 kPa (tested on aluminum plates under standard conditions, no water immersion)
Foaming Ratio	Approximately 40 times (sampled with a caulking gun under standard conditions)
Fire Rating	B2

All information presented in the product datasheet is based on laboratory testing. Actual results may vary due to real-world conditions beyond our control.

1. Introduction

M3 grade high quality polyurethane foam sealant is a one-component, moisture curing. Multi-purpose polyurethane foam filling elastic sealing material. It is widely used forfilling and sealing the edge seams of building doors and windows, expansion joints of components and holes.



2. Features

- High Expansion: Excellent vertical expansion for full, dense filling
- Fast Curing: 10-30 min surface dry (25°C/50% RH)
- Strong Bond: Adheres to concrete, wood, metal, PVC, etc.
- Low Shrinkage: Minimal post-cure shrinkage, ensures long-term stability
- Wide Temp Range: -40°C to 90°C, suitable for harsh conditions
- Eco-Friendly: Formaldehyde-free, low VOC

3. Standard

JC/T 936-2004

4. Application

Construction & Decoration

- Fill gaps around doors/windows
- Seal wall cracks and joints
- Seal pipe and wall openings

Insulation Engineering

- Repair insulation in cold rooms, AC ducts, solar heaters

Gardening & Landscaping

- Floral and landscape uses (lightweight and attractive)

Auto & Marine

- Fill cavities for sound and vibration dampening

Other Uses

- Secure signs and billboards
- Absorb shock in machinery and equipment

This product is suitable for experienced professional users. For bonding to specific substrates, please conduct an adhesion test before use to ensure adhesion strength and material compatibility. For detailed recommendations and information, please consult the Technical Department of Aofeng company.

5. Application Method

Pre-construction Preparation

- 1.Clean the substrate: Ensure the surface is dry, oil-free, and free of loose particles.
- 2.Shake thoroughly: Vigorously shake the can for 20–30 seconds before use.
- 3.Install spray gun: If using a gun-style package, attach the dedicated foam spray gun.

Construction Steps

- 1.Use upside down: Keep the can inverted, press the valve slowly, and fill evenly from the bottom of the gap upward.
- 2.Control the amount: The filling volume should not exceed 50%-70% of the gap volume (leave room for expansion).
- 3.Trimming and initial curing: After initial curing for 40-50 minutes, trim off excess foam with a blade.
- 4.Full curing: After 24 hours, subsequent treatments such as sanding and painting can be performed.

6. Packaging & Storage

750mL/can, 12 pcs/ctn

This product should be sealed and stored in a dry, well-ventilated, and cool place at a temperature of 5°C~25°C.

Shelf Life: Typically 12 months when unopened.

Always keep the can with the valve pointed upwards.

7. Safe Handling Recommendations

- Do not breathe spray/vapor, In case of eye contact, flush with water and get immediate medical attention.
- Use in well-ventilated areas.
- Wear suitable protective clothing, gloves and goggles,
- Keep away from direct sunlight and do not expose temperatures over 50°C.
- Do not burn or pierce even after use
- Keep out of the reach of children.
- Keep away from heat, sparks, flames and static electricity.
- Turn off sources of ignition (pilot light etc.).

8.Disclaimer

- 1.General Information Purpose: The information contained herein is, to the best of our knowledge, true and accurate. It is provided for informational purposes only and is based on laboratory testing under controlled conditions. However, no warranty or guarantee, expressed or implied, is made regarding its accuracy, suitability for any particular purpose, or the results to be obtained therefrom.
- 2.Variation in Performance: Actual performance properties, including but not limited to yield, expansion, cure time, and adhesion, may vary depending on substrate conditions, application techniques, ambient temperature, humidity, and other factors beyond our control.
- 3.User Responsibility: It is the sole responsibility of the user to evaluate the suitability and compatibility of this product for their intended application. We recommend conducting small-scale tests prior to full-scale use.
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