

ALFAFOAM FR

Fire resistant foam - manual version

TDS TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

Availability: container 750 ml; (HOSE)
Fire resistance class: max EI 180

ALFAFOAM FR is a flame retardant, polyurethane, foam, used for sealing and mounting window frames, PVC, wooden and aluminum doors, line-out connection and other cavities. The foam is highly contiguous with many building materials, resistant to high and low temperatures and perfectly insulates from heat and noise.

AREAS OF APPLICATION

- ALFAFOAM FR** is designed for preventive fire protection by:
- Insulating gaps in windows and doors
 - Applying in wall recesses and other cavities

PRODUCT FEATURES

ALFAFOAM FR adheres to all common building materials except polyethylene, silicone, oils and greases, mold release agents or similar substances. The foam can be used at Surface and ambient temperature of +5°C to +30°C.

Cured foam is semi-rigid, predominantly closed, rot-proof moisture- and temperature-resistant from -40°C to +80°C.

It is aging resistant, however not against UV radiation. Heat and noise reduction are excellent.

SHIPPING AND STORAGE

Contents	1 Unit / case	1 Unit / palette
750ml	12 cans	70 package

The expiration date is given on the packaging. If the date of manufacturing is given on the packaging, then shelf life amounts to 18 months since that date.

The perfect storing temperature is between +10°C and +20°C. Container must be storage vertically, and protected from frost and heat.



PRODUCT BENEFITS

- Preventive fire protection with a single product
- Building materials class B1 according to DIN 4102-1
- Reaction to fire: B-s1, D0
- Fire resistance tested up to 180min.
- Yields up to 39 liters of foam
- Guaranteed non-sticking safety valve
- Prolonged shelf life in every position
- Optimal application without dripping
- Added safety - Reduced accident risk
- Optimal dosage and repeated use without pollution

FIRE CLASSIFICATION

RIGID WALL thickness ≥ 150 mm

Connector/max width	Minimal depth of seals	EI
≤ 10 mm	≥ 150 mm	EI 90
≤ 20 mm	≥ 150 mm	EI 60
≤ 50 mm	≥ 50 mm ¹⁾	EI 180
≤ 50 mm	≥ 130 mm ²⁾	EI 240
Wooden frame ≤ 20 mm	≥ 150 mm ²⁾	EI 90

- 1) Mineral wool underlay, minimal density 90kg/m³, thickness 50mm
- 2) The foam coated on both sides with wooden frame.

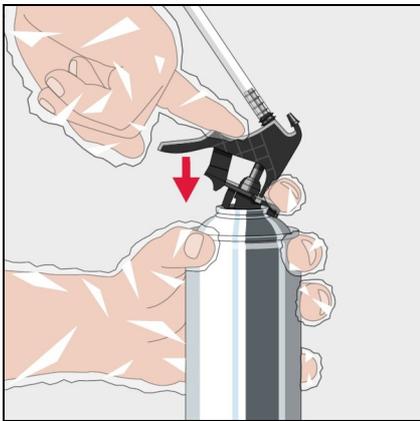
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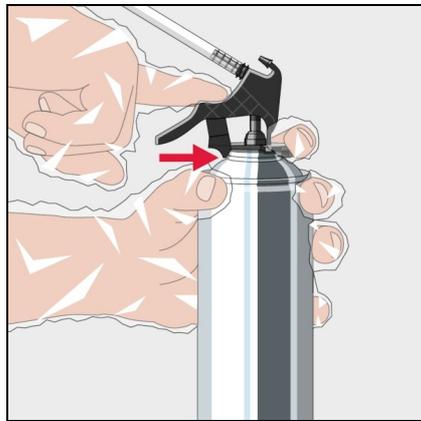
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WORK PREPARATION

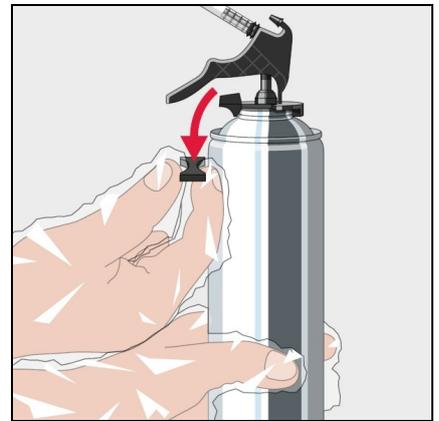
Surface must be firm, clean, dust and grease free. Remove loose particles and dampen the immediate area with water before proceeding. As an option, using a primer will increase stability. Have all components ready for attachment. The ideal working temperature is +20°C. Cans that are too cold can be carefully heated in lukewarm water. Attention: Never heat above +50°C, as the can may burst. Cans that are too hot, such as those left in a car during Summer, can be cooled in cold water, but do not shake! Before connecting with the foam gun, shake the can about 20x. Follow the gun operating instructions. Placing the can on a surface, attach the threaded adaptor by screwing it onto the threaded collar of the can. Do not tilt or overtorque the can. To obtain a finer and more uniform cell structure, an adapter hose can be attached to the foam gun. It should be no longer than 5 cm.



1. Fit the adaptor on the valve plat.



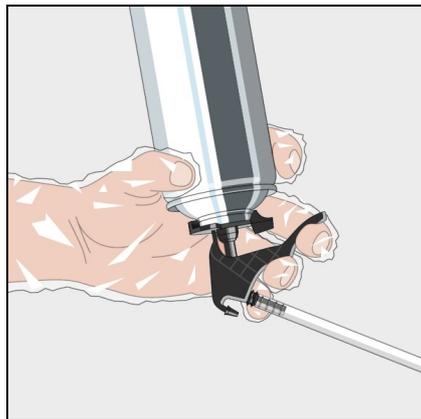
2. Fit the adaptor on the valve plat.



3. Remove the safety button from its latch.



4. Shake can approx. 20 -25 times to mix contents.



5. Turn the can upside down and start foaming.



6. After working fit straw tightly onto the sealing ring of the adaptor. Assure tight fit. For re-use pull straw from sealing ring.

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APPLICATION

Follow the instructions on the can. Fill voids modestly, as fresh foam can expand by about 200%. The foam discharge level can be regulated by varying the pressure on the adapter. Carefully press the adapter to control the amount of foam. Apply moisture evenly to the discharged foam. For larger gaps and cavities moistening is recommended after each foam layer. Applying insufficient moisture and/or cavity overfilling may lead to subsequent unintended foam expansion. Cured foam can only be removed specialized preparations or by mechanical means. After application, slide the adapter tube into the holder and place it over the lip seal. Be sure to secure firmly. This will allow work interruptions of several weeks. To reuse, remove the adapter hose from the holder.

TECHNICAL SPECIFICATIONS

(measured at +23°C, 50% relative humidity)

Cell structure	fine
Gross density (foam yield)	15 – 17 kg/m ³
Tack-free time (dry application)	about 10 min
Cuttable after (30 mm strand, dry application)	About 200 min
Fully cured (30 mm strand)	About 24 hours
Minimum / optimum / maximum application temperature (can, surface and environment)	+ 5°C / + 20°C / + 30°C
Temperature resistance for a cured foam strand	- 40 to + 80°C (briefly up to + 100°C)
Building materials class according to DIN 4102 part	B1
Reaction to Fire according to UNE-EN 13501-1: 2007+A1:2010	B-s1, d0
Fire Resistance according to UNE-EN 13501-2: 2009+A1:2010	EI 240
Foam Yield 750 ml can	Up to 39 liters