



ALCOLIN FIRE STOP FILLA FOAM

Description

Alcolin Fire Stop Filla Foam is a one-part moisture curing expanding polyurethane foam with a B1 fire resistance (non-flammable, self-extinguishing), which is used to fill, seal, and insulate. It has a high foaming speed and cures to a durable, semi-rigid waterproof structure, which is non-shrinking and has outstanding thermal and acoustic insulating properties. It has exceptional adherence to most construction materials and is suitable for interior and exterior applications.



Features & Benefits

- Provides up to 3 hours fire resistance.
- Very fast setting. Can be cut in 20 minutes.
- High expansion ratio. Approx. 20-26L per 750ml can in a gap.
- Excellent adhesion to most construction materials.
- Excellent thermal and acoustic insulation.

Fire Standards

- EN 13501-1 meeting B standard (in response to fire exposure, not easily flammable, produces very little smoke, and no flaming droplets of molten material).
- EN 13501-2 meeting EI180 flame resistance – able to withstand flame exposure on one side only, without the transmission of the flame to the unexposed side, also able to restrict the temperature rise of the unexposed face for a period of 3 hours.

Applications

Alcolin Fire Stop Filla Foam is ideal for sealing cracks, joints and gaps around roofs, walls, pipes, vents, utility lines and electrical outlets that require fire protection to prevent flames, heat or smoke transmitting through. It is ideal for the installation of fire doors and for the construction of multi-story buildings where fire protection is required.

- Sealing out drafts around windows, doors and baseboards
- Filling large gaps and spaces between prefab elements
- Providing structural space e.g. below shower tray
- Sealing of seams between chimneys, roof panels and wall panels
- Thermal, sound and water insulation
- Gluing of insulating panels like polyurethane and polystyrene

Adhesion

Bonds to most construction material i.e. plaster, concrete, stone, brick, painted surfaces, fibreglass, metals, wood, glass and many plastics.

Limitations

- EN 13501 fire standard is applicable for a maximum width of gap of 75mm. Any substrates must have fire classifications of A1 and A2 (non-combustible).
- Not suitable for bonding flexible surfaces or where there will be movement.
- It is recommended that the product be coated if exposed to sunlight/UV.
- Do not apply below 5°C.
- Does not bond to polyethylene, polypropylene, polyamide, Teflon or silicone.

Safety instructions

Alcolin Fire Stop Filla Foam is non-toxic, however, it is advisable to wear gloves to avoid direct skin contact. In the event of skin or eye contact, rinse thoroughly and immediately with soap and water. Seek medical assistance if irritation or discomfort persists. Cured foam on skin is difficult to remove and will stain for a few days. Keep out of reach of children! Work in a well ventilated area. Contents are flammable – do not use in the presence of an open flame. The can is pressurized, so do not damage or expose to temperatures above 50°C. Refer to our Safety Data Sheets for further toxicological information and comprehensive handling instructions.

Surface preparation

The surface coming into direct contact with Alcolin Fire Stop Filla Foam must be clean, dry, free from all loose materials, dust, dirt, oil, rust and any other contaminants. Use a non-greasy solvent such as acetone to clean non porous surfaces. Poor surface preparation may result in the delamination of the product.

Directions for use

1. Ensure surfaces are prepared as above.
2. If air humidity is low (<40%), moisten the joint, as this will improve expansion and adhesion. For maximum expansion of foam, improved adhesion, and accelerated curing, moisten the joint area with a damp cloth or mist spray.
3. If the can is too cold, it should be brought to room temperature by placing it in warm water.
4. Protect adjacent areas of the cavity with tape and plastic sheeting.
5. Shake the can thoroughly before use, for at least one minute.
6. Screw the nozzle firmly onto the valve adapter.
7. **Hold the can upside down during use**, with the nozzle pointing into the crack or cavity to be filled.
8. Press the applicator down and fill the crack or joint to approx. 50%, as the foam will expand 2 to 3 times the original volume.
9. For gaps and slots greater than 30cm in depth, we recommend that the foam be applied in layers, allowing each layer to cure before applying the next. This prevents the weight of the upper layers of foam from collapsing the lower layers.
10. Should the application be interrupted for more than 5 minutes, the applicator nozzle should be cleaned with acetone or thinners.
11. The foam is tack-free after 10 minutes, can be cut after 20 minutes*, and will take approx. 24 hours to cure, after which it can be sanded to a smooth finish and painted.

**cutting time is the time after which the foam can be cut, without collapsing or sticking to the blade.*

Cleaning

Excess uncured foam can be removed with an organic solvent e.g. thinners or acetone (nail varnish remover). Cured foam must be removed mechanically, and may leave a stain. Clean the nozzle and valve with thinners or acetone immediately after use.

Storage stability

Alcolin Fire Stop Filla Foam has a shelf life of at least 12 months if stored in a cool (below 25°C), dry place in its unopened original can in an upright position. We recommend that the entire can be used in one go since foam drying in the applicator may make future use of the can impossible, however, once opened, with the correct cleaning precautions taken, the product may be used for up to a month: Hold the can upright and briefly press the trigger to use the propellant to remove any foam blocking the valve adaptor. Wipe the straw clean with acetone. Take care not to eject all the propellant during the cleaning process. The product must be stored in an upright condition to prevent product from blocking the internal valve mechanism of the aerosol.

Product packaging

- 750ml pressurized can

Product data

i. Physical data – Cured Foam

Appearance	Pale orange foam
Density	25-30kg/m ³
Cell structure	Fine cell structure, approx. 70% closed
CFC's and H-CFC's	None

ii. Application data

Application temperature	+5 to +35 °C
Tack free time (min)	< 10
Cutting time (min)	< 20
Full cure time (hours)	24

iii. Performance data

Fire resistant class	B acc. EN13501 and B1 acc.DIN4102
Flammability class (EN13501-1+A1:2010)	B + B1
Fire resistance (EN1366-4+A1:2010) test (Classification EN 13501-2+A1:2013)	up to 3 hours
Fire Resistance Classification:	
A	EI180-V-X-W10
B	EI180-V-X-W10
C	EI190-V-X-W10 - 30
D	EI190-V-X-W10 - 40
E	EI180-T-X-W10
F	EI180-T-X-W10
Thermal and acoustic insulation	Good
Volume of foam (750ml can)	20 – 26 liters in joints 40 – 45 liters free expansion
Water resistance	Waterproof

The above information is only offered, as a guide to the use of this product. Furthermore, users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept responsibility for problems caused by the use and/or application of this product.

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