



TECHNICAL DATA SHEET

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

- Fire rated
 - Very fast setting
 - High expansion ratio
 - Insulating
 - No priming required
 - Will not rot
 - Good sag resistance
 - Weatherproof
 - Chemical resistant
 - Versatile
 - Good dimensional stability
 - Gap filling
- provides up to 3 hours' fire resistance.
 - can be cut in 20 minutes.
 - approx. 20-26L per 750ml can in a gap.
 - excellent thermal and acoustic insulation.
 - excellent primerless adhesion to most construction materials.
 - does not support mould or fungus.
 - does not run off vertical surfaces.
 - excellent water resistance.
 - not affected by most solvents.
 - cured product can be cut, plastered, drilled and painted.
 - wont crack with movement.
 - moulds itself to surface irregularities.

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

- Sealing around windows, doors, baseboards, utility lines, and electrical outlets that require fire protection.
- Filling large gaps and spaces between prefab elements.
- Protection to prevent flames, heat or smoke transmission.
- Providing structural space e.g. in a boat hull.
- Sealing of seams between chimneys, roof panels and wall panels.
- Thermal, sound and water insulation.
- Gluing of insulating panels like polyurethane and polystyrene.



- ideal for the installation of fire doors and for the construction of multi-story buildings where fire protection is required.

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 flammable. Keep away from naked flames and ignition sources. Safe handling practices should be implemented to avoid irritating sensitive skin. It is advisable to wear gloves in order to avoid direct skin contact. If foam comes into contact with skin or eyes, flush thoroughly and immediately with water. If irritation continues, seek medical attention. Foam is slippery when wet, so care should be taken when cleaning spillages that occur. Always work in a well-ventilated area. Do not breathe in vapors. For unventilated areas, a NIOSH approved respirator will be necessary. Pressurized container.

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

- Any excess uncured foam can be removed with an organic solvent e.g. thinners or acetone (nail varnish remover).
- Cured foam can only be removed mechanically and may leave a stain on surfaces.
- Hold the can upright and briefly press the trigger to use the propellant to remove any foam blocking the valve

adaptor. Take care not to eject all the propellant during the cleaning process.

- Clean nozzle and valve with thinners or acetone immediately after use.

Storage stability

ALCOLIN FIRE STOP FILLA FOAM has a shelf life of at least 18 months if stored in a cool (below 25°C), dry place in its original unopened canister. Once opened, the product shelf life is 30 days. Always store in an upright position.

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
General temperature resistance	90 – 100°C
Fire resistance (EN1366-4+A1:2010) test (Classification EN 13501-2+A1:2013)	up to 3 hours
Fire Resistance Classification: A B C D E F	El180-V-X-W10 El180-V-X-W10 El190-V-X-W10 - 30 El190-V-X-W10 - 40 El180-T-X-W10 El180-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