



TECHNICAL DATA SHEET

ALCOLIN FILLA FOAM

Description

ALCOLIN FILLA FOAM is a one-part moisture curing expanding polyurethane foam, which is used to fill, seal, and insulate. It cures to a durable, semi-rigid structure, is non-shrinking and has outstanding insulating properties. It has exceptional adherence to most construction materials and is suitable for interior and exterior applications. ALCOLIN FILLA FOAM is weatherproof and damp proof. It is non-toxic and will not expand, shrink or decay once cured.

Features & Benefits

- Quick expanding rate
 - Very fast setting
 - High expansion ratio
 - Weatherproof
 - Insulating
 - Good dimensional stability
 - Gap filling
 - Will not rot
 - Chemical resistant
 - Versatile
 - No priming required
- high foaming speed.
 - can be cut in 20 minutes.
 - approx. 27L per 750ml can.
 - excellent water resistance.
 - excellent thermal and acoustic insulation.
 - won't crack with movement.
 - moulds itself to surface irregularities.
 - does not support mould or fungus.
 - not affected by most solvents.
 - cured product can be cut, plastered, drilled and painted.
 - excellent primerless adhesion to most construction materials.



Applications

- Fills cracks, joints and gaps around pipes, vents, utility lines and electrical outlets.
- Seals out drafts around windows, doors and baseboards.
- Fills large gaps and spaces between prefab elements.
- Provides structural space e.g. below shower tray.
- Seams between chimneys, roof panels and wall panels.
- Insulates vehicles, caravans and boats.
- Insulating electrical outlets.
- Thermal, sound and water insulation.
- Bonds roof tiles.
- Gluing of insulating panels like polyurethane and polystyrene.
- Increases the rigidity of structures.
- Backing material before application of sealants.
- Rodent and insect barrier.

Adhesion

- Bonds to plaster, concrete, stone, brick, painted surfaces, fibreglass, metals, wood, glass and many plastics.

Limitations

- Must be coated if exposed to sunlight/UV.
- Not to be applied below 5°C.
- Does not bond to polyethylene, polypropylene, Teflon or silicone.

Safety instructions

ALCOLIN 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

- Ensure that surfaces are clean and free of dust, dirt, oil, rust and any other contaminants.
- Use of a non-greasy solvent such as acetone is recommended.
- If soaps or detergents are used to clean the surface they must be rinsed down thoroughly with clean water to ensure all traces of the soaps are removed before using the product.

Directions for use

1. Protect adjacent areas of the cavity with tape and plastic sheeting.
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.
3. Shake the can thoroughly before use for at least one minute.
4. Screw the nozzle firmly onto the valve.
5. **Hold the can upside down during use**, with the nozzle pointing into the crack or cavity to be filled.
6. By activating the adapter lever carefully, the extrusion rate can be regulated.
7. Press the applicator nozzle down and fill approximately 1/3rd of the hole with foam, as the foam expands approximately 2 to 3 times in size.
8. For joints larger than 30cm in depth, the foam should be applied in layers. Allow to cure between layers.
9. To increase the expansion, spray water-mist at the same time as applying the foam.
10. The foam is tack-free after 5 to 10 minutes and will take approximately 60 minutes depending on the temperature and relative humidity to achieve final volume, after which it is possible to judge whether extra foam is needed and how much.
11. After approximately 2 to 5 hours, the foam can be cut and sanded to a smooth finish.
12. A layer of crackfiller can also be applied over the foam to obtain an even smoother finish.

Application notes

- Use gloves! Cured foam is difficult to remove from skin and will stain for a few days. A pumice stone can assist in removing excess cured foam from skin.
- *YIELD: 250ml can = up to 9 litres in free expansion.
- *YIELD: 500ml can = up to 21 litres in free expansion.
- *YIELD: 750ml can = up to 27 litres in free expansion.

** These values can change based on the environmental conditions.*

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 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. Store in an upright position at all times.

Product packaging

- 250ml pressurized can
- 500ml pressurized can
- 750ml pressurized can

Product data

i. Physical data – Cured Foam

Appearance	Beige foam
Density (g/cm ³)	0.17 to 0.30
Cell structure	Fine cell structure, approx. 70% closed

ii. Application data

Application temperature	+5 to +30 °C
Can be cut	2 – 5 hours
Full cure	24 hours

iii. Performance data

Temperature resistance	-40 to +90 °C
Shrinkage (%) – dimensional stability	0 to 3%
Compressive strength at 10%	63 kPa
Thermal conductivity	27 m W/m ⁰ K
Elasticity modulus (DIN 53428)	1.8 MPa
Elasticity limit (DIN 53421)	36 kPa
Water resistance	Waterproof
Water absorption (DIN 53428)	0.3%
Flash point of cured foam	400 °C
Volume foam per 250ml can	Up to 9 litres in free expansion
Volume foam per 500ml can	Up to 21 litres in free expansion
Volume foam per 750ml can	Up to 27 litres in free expansion