



EVO-STIK Fire Retardant Expanding Foam Filler

A SINGLE COMPONENT, MOISTURE CURING, POLYURETHANE

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FactSheet No.: TDS00158

YOUR SMART ADVANTAGES

- Forms an airtight seal to prevent transmission of smoke
- Fills & insulates large or small gaps
- Excellent adhesion to most building materials

USES

EVO-STIK Fire Retardant Expanding Foam Filler is a B1 one component polyurethane foam that is self-curing through the absorption of moisture from the atmosphere. It sets to form a semi-rigid structure, which flexes firmly, yet yields to vibration and joint movement. It has excellent adhesion to wood, brick, stone, concrete, plaster, asbestos, wallboard, hardboard, and metal surfaces. It does not bond polythene, Teflon®, silicone and other waxy materials.

EVO-STIK can be used in interior and exterior applications. It is suitable for filling large, irregular or awkward gaps where a fire rating is needed, for filling gaps through fire rated insulation between brickwork and cladding and around ductwork, and for insulating and filling around door and window frames, where a fire rating is necessary.

PRODUCT CHARACTERISTICS

Colour	Pink
Form	Liquid aerosol
Specific Gravity	1.038g/cm ³ (inside can); foam density is 15-20kg/m ³
Composition	Moisture cured polyurethane pre-polymer solution
Product Code	30811859 700ml x 12
Storage/Shelf Life	Store and transport securely in an upright position. Store for up to 12 months from date of manufacture in

original, unopened packaging under cool, dry conditions within the temperature range of +5°C to +25°C and out of direct sunlight. Do not expose to temperatures above 50°C. Ensure container cannot be knocked over, accidentally damaged or is not within the reach of children or animals. During transport store upright and securely in car boot.

TYPICAL PERFORMANCE DATA (Approx.)

Application Temperature	+5°C to +35°C Ideal temperature for use between +15°C to +20°C
Service Temperature	-40°C to +90°C
Tack Free	10 to 20 minutes
Curing Time	50 to 100 minutes
Cut-able	50 to 100 minutes
Coverage	30 – 35 litres approx. per 700ml. The coverage yields are the maximum expected if the product is allowed to freely expand. These yields do not include wastage, which can be considerable, depending upon the manner used.
Thermal Conductivity	30 – 35 mW/mK
Fire Rating	EN1366-4: gives up to 2 hours integrity, and up to 4 hours integrity when combined with other Fire Protect products, in suitable structures. Fire Class B1 according to DIN 4102-1 between solid metal or mineralic material. Fire resistance class E1 180-V-X-F-W 10-50* as per classification

report KB 3.2/15-031-2 acc. to DIN EN 1366-4 in combination with DIN 13501-2. Certified by MfPA Leipzig GmbH.

*Joint Structure: Compressed mineral wool at the side facing the fire space (width 200mm, depth 100mm) and B1 foam at far fire space side (depth 100mm).

Results will vary when applied at different rates and/or onto other substrates.

DIRECTIONS FOR USE

IMPORTANT: Before using EVO-STIK Fire Retardant Expanding Foam Filler refer to the relevant Health & Safety Data Sheet, available at www.bostik.co.uk.

PREPARATION

1. Do not apply below +5°C or above +35°C. Ideal temperature for application is between +15°C to +20°C.
2. Always work in well ventilated areas.
3. Always wear gloves and suitable clothing as cured foam is extremely difficult to remove.
4. Always work in very well ventilated places.
5. Protect sensitive nearby surfaces from stray foam by covering them.
6. Remove all sources of ignition and isolate switches that may cause sparks.
7. The surfaces must be clean and free from grease, oil and loose particles.
8. Just prior to foam application mist the surface well with a water mist sprayer to improve adhesion and ensure even curing of the foam.
9. Expansion is further helped by moistening each layer of foam applied.

APPLICATION

10. Do not try to force foam from the can with any tool or sharp object. If the foam does not come out of the

nozzle under normal finger pressure, refer the can to the retailer, and contact our Technical Services department.

11. Shake the can vigorously at least 30 times before use. Also shake from time to time during use to mix contents. Application must be carried out whilst the can is upside down.
12. Remove protective cap and carefully screw applicator nozzle on to the valve. Avoid bending the valve or forcing it into the seal, as this causes the valve to open and release contents.
13. Moisten surfaces well before application to improve adhesion and cure of the foam.
14. If extruding the foam onto itself, spray a mist of water onto the first layer to assist curing process.
15. Turn the can upside down and apply pressure to applicator nozzle. Vary pressure to control flow of foam. On vertical surfaces, start at the lowest point. On horizontal surfaces, work away from the extruding bead.
16. Remember to fill approximately half the required depth of the cavity because the foam will expand.
17. After 10 to 20 minutes the foam will become tack free. After 1 hour it is fully expanded. The foam will be firmly set between 1 to 4 hours depending on temperature and humidity, when any excess can be trimmed with a sharp blade.
18. Fully fire retardant after 10 to 14 days of application.
19. Foam can be cut, sanded, plastered or painted once fully cured to give a neat finish.
20. The foam must be coated or painted if it is exposed to sunlight.

CLEANING

21. Remove all excess foam immediately with a clean dry cloth.
22. First cleaning may leave minute residues so repeat the process, even if not visible.

23. Cured foam may only be removed by mechanical means.

PRECAUTIONS IN USE

Always store foam cans upright in a position where they cannot fall and are, yet, out of reach of children and animals.

Do not expose containers to temperatures exceeding 50°C.

If transporting, store upright in secure place in the boot of the vehicle, not in the passenger compartment.

Never force the valve as damage may lead to foam leaking unexpectedly. The valves are not 'straight-through' so they cannot be unblocked.

The product is so reactive with moisture that a can re-sealed after opening, cannot be guaranteed usable after.

Try to use the foam at 20°C. Below this the flow rate will be slower and the yield much lower and the foam lower quality. At higher temperatures the flow rate will be much faster and the yield higher.

Never try to warm very cold cans quickly. Always place them in a room at around 20°C for a few hours.

Be careful when using the product in windy conditions, as the foam is so light it can be blown onto sensitive surfaces where it will be very difficult to remove completely.

For any application not covered please contact Technical Services on +44 (0)1785 272625 or visit www.bostik.co.uk for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Health and Safety Data sheet for EVO-STIK Fire Retardant Expanding Foam Filler, available at www.bostik.co.uk.

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



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