



EVO-STIK Fire Retardant Gun Applied Expanding Foam Filler

A SINGLE COMPONENT, MOISTURE CURING, POLYURETHANE

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FactSheet No.: TDS01901

YOUR SMART ADVANTAGES

- Forms an airtight seal to prevent transmission of smoke
- Fills & insulates large or small gaps
- Gun application allows greater accuracy

USES

EVO-STIK Fire Retardant Gun Applied 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 adhere to polythene, Teflon®, silicone and other waxy materials.

EVO-STIK Fire Retardant Gun Applied Expanding Foam Filler 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. Can also be used for insulating and filling around door and window frames, where a fire rating is necessary.

Application by gun means greater accuracy can be achieved when applying.

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	30607736 700ml x 12
Storage/Shelf Life	12 months from date of manufacture, in unopened packaging, stored in a cool dry place between +5°C and +25°C stored upright. Ensure container cannot be knocked over, accidentally damaged or is not within the reach of children or animals.

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
Closed Cells	±70%
Tack Free	10 to 20 minutes
Curing Time	50 to 100 minutes
Cut-able	50 to 100 minutes
Coverage	34 - 36 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 W/(m·K)
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 Gun Applied Expanding Foam Filler refer to the relevant Health & Safety Data Sheet, available at www.bostik.co.uk named as the code above.

PREPARATION

1. Do not apply below +5°C or above +35°C. Ideal temperature for application is between +15°C or above +23°C.
2. Always work in well ventilated areas.
3. The surfaces must be clean, free of loose particles and free of dust and grease.
4. Just prior to foam application mist the surface well with a water mist sprayer to ensure even curing of the foam.
5. Expansion is further helped by moistening each layer of foam applied.
6. Always wear gloves and suitable clothing as cured foam is extremely difficult to remove.
7. Protect sensitive nearby surfaces from stray foam by covering them. Remove all sources of ignition and isolate switches that might cause sparks.
8. In cold temperatures, leave the foam at least one hour before use in warm to room temperature.

APPLICATION

1. Turn the can of foam upside down and fix onto the applicator gun ensuring that the threads are lined up.
2. Shake the can at least 30 times before use.
3. Regulate the flow of foam by loosening the valve at the back of the handle.
4. Check there are no sources of ignition present.
5. Half fill the cavity with foam then mist the foam with water. The foam will expand to fill the rest.
6. If fixing a window frame use wedges to hold the frame in place for 24 hours until the foam is fully cured.

7. When cured the foam may be cut to give a neat finish. The cured foam is not resistant to sunlight and should be painted or covered for protection within 7 days.
8. Usually the foam applicator gun is left attached to a can of foam to ensure the entire system is closed. To reuse break the nib of foam off the end of the gun applicator nozzle, shake can well and start application.
9. If replacing cans, close the gun valve and unscrew the empty can. Replace immediately with a full can of foam or thoroughly clean the foam applicator gun with EVO-STIK Foam Cleaner (further information on EVO-STIK Foam Cleaner data sheet).
10. Fully fire retardant after 10-14 days.

CLEANING

1. Foam spillages must be removed whilst fresh with Gun Foam Cleaner, acetone or nail varnish remover. First cleaning may leave minute residues so repeat the process.
2. Cured foam can only be removed mechanically.

PRECAUTIONS IN USE

Always store foam cans upright and in a position where they cannot fall and 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 a car not in the passenger compartment.

Never force the valve as damage can 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 later.

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 about 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.

The product does not bond to silicone, Teflon or polyethylene.

The foam is not suitable for continuous water immersion.

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 Gun Applied Expanding Foam Filler, available at www.bostik.co.uk.



BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



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