



## PRODUCT DATA



FM 1696  
BS EN ISO 9001:2008

Date: 21 January 2013

Information Sheet No.: TDS00158

### EVO-STIK FIRE RETARDANT EXPANDING FOAM FILLER A SINGLE COMPONENT, MOISTURE CURING, POLYURETHANE

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, wallboard, hardboard and metal surfaces. Before using this product refer to the relevant Health & Safety Data Sheet.

#### Features

- Forms an airtight seal to prevent transmission of smoke
- Fills & insulates large or small gaps
- One part, fast curing polyurethane
- Excellent adhesion to most building materials
- Cured foam can be cut, sanded and painted

#### Uses

- Interior and exterior use.
- Filling large, irregular or awkward gaps where a fire rating is needed.
- Filling gaps through fire rated insulation between brickwork and cladding and around ductwork.
- Insulating and filling around door and window frames, where a fire rating is necessary.

#### Product Characteristics

<b>Colour</b>	Pink
<b>Form</b>	Liquid aerosol
<b>Specific Gravity</b>	Cured foam is approximately 18g/litre, when allowed to foam freely.
<b>Composition</b>	Moisture cured polyurethane pre-polymer solution.
<b>Product Code</b>	132658 700ml x12
<b>Shelf life</b>	12 months from the date of manufacture when stored in the dry between 5°C & 25°C, out of direct sunlight.
<b>Storage</b>	Ensure container is stored upright, cannot be knocked over, accidentally damaged or within the reach of children or animals

#### Typical Performance Data (approx.)

**Application Temperature** +5°C to +35°C (ideally +15°C to +20°C)

**Service Temperature** -40°C to +90°C

**Tack Free** 8-12 mins

**Cutable** 15-30 mins

**Load bearing** 24 hours

**Coverage** 700ml 34-36 litres, approx

- 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** Fire Class B1 according to DIN 4102-1 between solid metal or mineralic material. Fire resistance class EI 180-V-X-F-W 10-50\* as per classification report 3.2/10-052-2 acc. to DIN EN 1366-4 in combination with DIN 13501-2. Certified by MfPA Leipzig GmbH

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



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### Directions for use

#### IMPORTANT

Before using refer to the relevant Health & Safety Data Sheet. Available at [www.bostik.co.uk](http://www.bostik.co.uk) named as the code above.

#### Surface Preparation

1. The surfaces must be clean, free of loose particles and free of dust and grease.
2. Just prior to foam application mist the surface well with a water mist sprayer to ensure even curing of the foam.
3. Expansion is further helped by moistening each layer of foam applied.
4. Always wear gloves and suitable clothing as cured foam is extremely difficult to remove.
5. Protect sensitive nearby surfaces from stray foam by covering them. Remove all sources of ignition and isolate switches that might cause sparks.

#### Application

1. Shake the can well before use.
2. Carefully screw the adapter and extension tube firmly on to the valve. Do not over tighten taking care not to operate the valve accidentally by exerting too much downward or sideways pressure.
3. Always work in very well ventilated places.
4. Check there are no sources of ignition present.
5. Foam flow can be regulated by applying different pressure or by tilting the adapter with the valve pointing downward.
6. The fresh foam will expand during the curing process of reaction with moisture.
7. Apply foam in layers leaving a little space for some of the expansion during curing. Damp each layer with a water mist sprayer to assist rapid curing.
8. 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, even if not visible! Cured foam can only be removed mechanically.

9. 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.

#### 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 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 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.

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.



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