

## PRODUCT DATA SHEET

## EVERBUILD® B1 Gun Grade Fire Foam

QUICK-SETTING, FIRE-RATED, POLYURETHANE FOAM

**PRODUCT DESCRIPTION**

EVERBUILD® B1 Gun Grade Fire Foam is a quick-setting, fire-rated, one-part polyurethane foam. It expands on application to yield up to 50 times the can contents and meets the extremely stringent requirements of the test criteria DIN 4102 Part 1 for Construction Materials; Class B1 and BS 476 Part 20. Fire rated up to 4 hours in certain joint configurations. For use with an Everbuild® Professional Foam Gun; once cured the foam can be cut, sawn or plastered over after only one hour.

**USES****Filling**

- Gaps around pipe entries through fire rated walls
- To provide a fire-rated seal around window and door frames
- Electrical wire chasing prior to plastering, where a fire rating is required.
- Deep joints prior to applying sealant or plaster
- Irregular gaps in stone, brick, concrete or plaster

**Fixing**

- Door frames
- Timber structures
- Windowsills and thresholds.
- Window frames

**Insulating**

- Behind cladding to exterior walls.
- Behind soffit and barge boards

**CHARACTERISTICS / ADVANTAGES**

- High degree of fire rating: slows down the passage of flames and smoke.
- Quick setting - can be cut, sawn or plastered in 1 hour.
- Economical in use - expands up to 50 times its original can volume.
- Fills irregular and broad gaps where most conventional fillers would fail.
- Possesses insulating and sound deadening properties.

<b>Expansion</b>	40 litres (750ml can)
<b>Cell Structure</b>	Medium fine

**APPROVALS / STANDARDS**

DIN 4102 Part 1 for Construction Materials; Class B1 BS476 Part 20 (1987) where fire ratings up to 4 hours are achievable. Copies of the independent test certificates are available on request. Warrington fire report number 160899 and 151680 (for use with stud partition walls and cables).

**PRODUCT INFORMATION**

<b>Packaging</b>	750ml tin
<b>Colour</b>	Pink
<b>Shelf Life</b>	12 months in original containers at stated storage temperatures.

## Storage Conditions

Store upright between 20 and 25°C Pressurized container. Protect from sunlight and do not expose to temperatures above 50°C. Do not pierce or burn the can even after use. Store as flammable liquid.  
Note: Elevated temperatures will reduce shelf life dramatically.

## TECHNICAL INFORMATION

Compressive Strength	4N/cm <sup>2</sup> (DIN 53421) at 10% stress.
Tensile Strength	8N/cm <sup>2</sup> (DIN 53430)
Elongation at Break	Elongation At Tension - 25% (DIN 53430)
Shear Strength	5N/cm <sup>2</sup> (DIN 53427)
Dimensional Stability	Full Load Bearing Stability - App, 12 hours (20mm bead)
Water Absorption	0.3 Vol % (DIN 53433)
Thermal Conductivity	0.04 W/mK (DIN 52612)
Service Temperature	-40°C to +80°C

## APPLICATION INFORMATION

Ambient Air Temperature	5°C to 30°C (optimum 20°C)
Cutting Time	13-14 mins 20mm bead.
Tack Free Time	7-9 minutes

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Ensure all surfaces are clean, sound and free from dust and loose particles. Moisten surfaces to be sealed with water. This assists the curing process.

### APPLICATION METHOD / TOOLS

ALWAYS WEAR PROTECTIVE GLOVES. Shake can well before use (about 20 times). Attach the gun to the can by screwing the can clockwise onto the wheel on the top of the gun. ALWAYS USE CAN UPSIDE DOWN. Only partially fill cavities, as the foam will expand to fill the remaining space. When used for fixing doorframes, supports must be used until the foam is fully cured.

### CLEANING OF TOOLS

Any excess foam can be removed whilst still wet with EVERBUILD® FOAM CLEANER. Cured foam must be removed mechanically. Always remove nozzle from can/gun and clean immediately after use with EVERBUILD® FOAM CLEANER.

### LIMITATIONS

- Carefully read instructions and text in warning box before use.
- Do not over-pressurize container.
- Always apply above 5°C.
- Clean spills immediately with EVERBUILD® FOAM CLEANER.

#### Please note:

When transported in cars, keep in boot, out of direct sunlight. When removing cured foam from skin, take

care not to damage with abrasives. Grease skin with body lotion or similar.

IMPORTANT – Re-use is only possible by cleaning the nozzle and valve tip with EVERBUILD® DUAL PURPOSE FOAM CLEANER before the foam has cured. Do not push any object into the valve as the contents may explode.

### VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

### ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

### LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal

conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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EVERBUILDB1GunGradeFireFoam-en-GBEVER-(05-2018)-1-1.pdf

Product Data Sheet  
EVERBUILD® B1 Gun Grade Fire Foam  
May 2018, Version 01.01  
02051406000000037