

## PRODUCT DATA SHEET

# EVERBUILD® B1 Gun Grade Fire Foam

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

### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyurethane
<b>Packaging</b>	750 ml tin
<b>Colour</b>	Pink
<b>Shelf Life</b>	12 months in original containers at stated storage temperatures.
<b>Storage Conditions</b>	Store upright between +20 °C and +25 °C Pressurized container. Protect

### 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>	35 litres (750 ml can)
<b>Cell Structure</b>	Medium fine
<b>Temp Res Of Cured Bead</b>	Long Term: -40 °C to +80 °C

### 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).

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

## APPLICATION INFORMATION

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

## 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.

## 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.
- # Door frames fixing is not tested for fire (not certified under BS476 part 22).

### 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.

## ECOLOGY, HEALTH AND SAFETY

## 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

ALWAYS WEAR PROTECTIVE GLOVES. Shake can well before use (about 20 times). Remove cap and screw gun carefully onto the black adapter of the can. Take care not to over tighten. ALWAYS USE CAN UPSIDE DOWN.

Only partially fill cavities as the foam will expand to fill the remaining space. Any excess foam can be removed whilst still wet with Everbuild Foam Cleaner. Cured foam must be removed mechanically. The gun can be left attached to the can in between jobs. When the gun is removed for storage, ALWAYS thoroughly purge with Everbuild Foam Cleaner. When used for fixing door frames, 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.

## 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 exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommenda-

tions 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.

**SIKA LIMITED**

Watchmead  
Welwyn Garden City  
Hertfordshire, AL7 1BQ  
Tel: 01707 394444  
Web: [www.sika.co.uk](http://www.sika.co.uk)  
Twitter: @SikaLimited



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