

# TECHNICAL DATASHEET

## Gun Grade Expanding Foam

### Description & Uses

An easy to use, one part PU Expanding Foam ideal for general construction and home improvement uses. For use with foam applicator guns, featuring higher yield with expansion up to 1.5 times, easy application and reusability.

Alpha Chem Gun Grade Expanding foam has excellent adhesion and filling capabilities plus high thermal and acoustical insulation value. Conforms to fire class B3 according to DIN 4102-1. Mould proof, waterproof and over paintable.

This product does not contain any propellant gases which are harmful to the ozone layer.

### Ideal for:

- Filling large, irregular or awkward gaps where the foam will expand to completely fill the cavity.
- Fixing and insulating window and door frames.
- Fixing boards.
- Insulating between brickwork and cladding, around ductwork and through cavities carrying pipes and cables.
- Backing as a joint backing material in low expansion joints.

### Directions

- Ensure all surfaces are clean, sound, dry and free from dust, grease or other contaminants.
- Optimal can temperature is +20°C. Application temperature is between +5 °C and +30 °C.
- **SHAKE THE CAN WELL BEFORE USE.**
- Screw onto an applicator gun, taking care not to overtighten.
- Moistening the surfaces and the foam improves adhesion and shortens the cure time.
- To apply the foam, **TURN THE CAN UPSIDE DOWN** and press the trigger, the output of the foam can be regulated with the trigger and controlled with the adjustment screw on the back side of the gun. Always keep the can upside down during application.
- **FILLING** – fill the hole half full of foam, as post expansion will completely fill the hole.
- **FIXING** – When fixing door and window frames use wedges to hold the frame in place until full cure is reached, approximately 24 hours.
- After use the gun should always be left attached to the can of foam. To re-use



simply break the nib of foam at the end of the gun applicator nozzle, shake can and start application.

- Fresh foam can be cleaned by Alpha Chem Foam Cleaner. Cured foam can be cleaned mechanically.
- It is the user's responsibility to dispose of all packaging correctly.

### **Important**

Never leave the gun separate from the can of foam without thoroughly cleaning first.

Before changing cans on the gun, close the valve, then unscrew empty can and replace immediately with a full one.

### **Storage**

Store in cool, dry conditions between +5°C and +25°C.

### **Shelf Life**

15 months from date of manufacture, when stored as directed.

### **Limitations**

- Should be stored and transported in a vertical position.
- Storage above +25 °C and below +5 °C will shorten shelf life.
- Keep at room temperature for at least 12 hours before the application.
- Cured foam will discolour if exposed to ultraviolet light.
- Paint or coat the cured foam for best results in outdoor applications.
- Lower temperatures decrease yield and curing time.
- It is the user's responsibility to ensure suitability for use.
- **Read the label carefully before use as it contains important health and safety information. It is advised that you read the Safety Data sheet which contains the full information.**

### **Technical Data**

<b>Curing System</b>	Moisture cure
<b>Specific Gravity</b>	19± 3 Kg/m <sup>3</sup> (ASTM D1622)
<b>Tack Free Time (1cm width)</b>	6± 2min (ASTM C1620)
<b>Cutting Time (1cm width)</b>	20-45 min (ASTM C1620)
<b>Cure Time</b>	24 hours
<b>Foam Colour</b>	Light yellow
<b>Yield</b>	30-45 L (ASTM C1536)
<b>Fire Class of the Cured Foam</b>	B3 (DIN 4102-1)
<b>Thermal Conductivity</b>	0.036 W/m.k (at 20°C) (DIN 52612)
<b>Compression Strength</b>	0.03 MPa (DIN 53421)
<b>Water Absorption</b>	Max 1 vol% (DIN 53428)
<b>Can Temperature</b>	min.5°C max. +30°C
<b>Temperature Resistance</b>	-40°C to +80°C
<b>Application Temperature</b>	-2°C to +30°C

*These results were obtained by proving optimum environmental conditions.*

#### **Further Information:**

In the event of further queries or problems concerning the use of this product, please contact the address below, e-mail [info@cromar.uk.com](mailto:info@cromar.uk.com).

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