



Technical Sheet

B1 FIRE RESISTANT LOW EXPANSION INSULATING GUN FOAM

One –component polyurethane foam hardening due to air humidity. The foam is manufactured in compliance with requirements of ISO 9001:2008 standard.

Fix 46 supplier B1 Fire Resistant Insulating Gun Foam is pink in colour for easy inspection recognition. The foam is tested according to FEICA methods, designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance.

Applications:

- ⇒ SEALING FOR WINDOW FITTING
- ⇒ SEALING FOR DOOR FITTING
- ⇒ FILLING FREE SPACES
- ⇒ CRACKS
- ⇒ GAPS
- ⇒ PIPE PENETRATIONS
- ⇒ SEALING ROOF, WALL AND FLOOR JOINTS,
- ⇒ THERMAL INSULATION
- ⇒ ACOUSTIC INSULATION.



**Fix 46 Supplier, Unit 9, Millennium Court,
Foxhole, Youghal, Co. Cork Ireland
Tel. 089 46 46 646**

**e-mail: info@fix46.com
[www. fix46.ie](http://www.fix46.ie)**



Benefits:

- ⇒ B1/Bs1d0 FOAM FLAMMABILITY
- ⇒ EI240 FIRE RESISTANCE FOR LINEAR JOINTS EFFICIENCY,
- ⇒ SOUND INSULATION
- ⇒ QUICK SETTING,
- ⇒ FOAM ADHESION TO SURFACE,
- ⇒ FOAM YIELD, FOAM PRESSURE
- ⇒ FOAM VOLUME INCREASE (POSTEXPANSION)

APPLICATION CONDITIONS

Can/ applicator temperature [°C]	+10 - +30
Ambient/ surface temperature [°C]	+10 - +30

DIRECTIONS FOR USE

Prior to application, read safety instruction presented at the end of TDS and in MSDS.

1. SURFACE PREPARATION

The foam presents ideal adhesion to typical construction materials, such as: brick, concrete, plaster work, wood, metals, Styrofoam, hard PVC and rigid PUR.

- Working surface should be cleaned and degreased.
- The surface can be sprinkle with water at application temperature above 0°C.
- Secure surfaces exposed to accidental foam contamination.



2. PRODUCT PREPARATION

- Too cold can should be brought to room temperature, e.g. by immersion in warm water with temperature up to +30°C or leaving it in room temperature for at least 24 h.
- Applicator temperature cannot be lower than can temperature.

3. APPLICATION

- Put on protective gloves.
- Vigorously shake the can (10-20 seconds, the valve facing down) to thoroughly mix the components.
- Screw the can onto the applicator.
- Working position of the can is “valve facing down”.
- Vertical gaps should be filled with foam starting at the bottom and moving up.
- Do not fill the entire gap – the foam will increase in volume.
- In case of sealing the open woodwork, gaps > 3 cm are not recommended. Gaps > 5 cm are unacceptable. Slots wider than 3 cm from the bottom to fill up from one wall to the other alternately forming a zigzag pattern.
- Should application be interrupted for more than 5 minutes, the applicator nozzle with fresh foam should be cleaned with polyurethane foam cleaner and the can should be shaken prior to application.

4. WORKS AFTER COMPLETION OF APPLICATION

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints, acrylic, silicon.
- After completion of work, the applicator should be thoroughly cleaned. To this end, a can with the cleaner should be screwed on the applicator and its trigger should be pushed until the moment, when clean fluid starts flowing out.



5. REMARKS / RESTRICTIONS

DOOR AND WINDOWS FITTING WITHOUT USING MECHANICAL COUPLING IS FORBIDDEN. LACK OF MECHANICAL COUPLINGS MAY CAUSE DEFORMATION OF THE MOUNTED ELEMENT.

- The curing process is dependent on temperature and humidity. The decrease in ambient temperature within 24 h after the application below the minimum application temperature can affect the quality and / or correctness of the seal.
- Hurried attempts at preliminary treatment may cause irreversible changes in foam structure and its stability and may affect deterioration of foam utility parameters.
- Open foam package should be used within 1 week.
- The foam displays lack of adhesion to polyethylene, polypropylene, polyamide, silicone and Teflon.
- Fresh foam should be removed with polyurethane foam cleaner.
- Hardened foam may only be removed mechanically (e.g. with a knife).
- Quality and technical condition of used applicator affect the parameters of final product.
- The foam should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.

TECHNICAL DATA

Colour	
Pink	+



Parameter (+23°C/50% RH) 1)	Value
Nominal value [ml]	800
Capacity (free foaming) [l] (RB024)	35 - 42
Capacity in gap [l] (RB024) 2)	24 - 32
Secondary increase in volume (post-expansion) [%] (TM 1010-2012**)	90 - 120
Tack-free time [min] (TM 1014-2013**)	≤ 10
Cutting time [min] (TM 1005-2013**) 3)	≤ 40
Full cure time [h] (RB024)	24
Heat conductivity coefficient (λ) [W/m*K] (RB024)	0,036
Dimensional stability [%] (TM 1004-2013**)	≤ 3
Flammability class (DIN 4102)	B1 4)
Flammability class (EN 13501-1+A1:2010) test method EN ISO 11925-2, EN 13823	Bs1d0
Fire resistance (EN 13501-2+A1:2008) test method EN 1366-4:2008	EI240 5)

1) All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam).

2) The value given for a gap with dimensions 30*100*35 (width *length *depth [mm]).



3) The manufacturer recommends to commence finishing works after full hardening is completed, i.e. after 24 h. The result given for a foam strip of 3 cm diameter.

4) For linear gaps with maximum width 30 mm and maximum depth 80 mm between monolithic, mineral or metal construction materials.

5) For gaps with width 10 mm and depth 200 and 240mm, Or with width 20 mm and depth 240mm in construction made of aerated concrete blocks (available on request).

****Producer uses test methods approved by FEICA designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance. FEICA OCF test methods are available at: <http://www.feica.com/our-industry/pu-foam-technology-ocf>. FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers. Further information at: www.feica.eu**

TRANSPORT / STORAGE

Transport temperature	Foam transport period [days]
< -20°C	4
-19°C ÷ -10°C	7
-9°C ÷ 0°C	10

The foam maintains its usability within 18 months from manufacturing date, provided that it is stored in original packaging in vertical position (valve facing up) in a dry place in temperature +5°C do +30°C. Storage in temperature exceeding +30°C shortens the shelf life of the product, adversely affecting its parameters. The product may be stored in temperature -5°C, no longer however than for 7 days (excluding transport). Storage of foam cans in temperature exceeding +50°C or in vicinity of open flame is not allowed. Storage of the product in a position other than recommended may result in jamming the valve. The can cannot be squeezed or pierced even when it is empty. Do not store the foam in the passenger compartment. Transported only in the trunk.

Detailed transport information is included in the Material Safety Data Sheet (MSDS).

**Fix 46 Supplier, Unit 9, Millennium Court,
Foxhole, Youghal, Co. Cork Ireland
Tel. 089 46 46 646**

**e-mail: info@fix46.com
[www. fix46.ie](http://www.fix46.ie)**



The information contained herein is offered in good faith based on Producer's research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer's tests to ensure that Producer's products are fully satisfactory for your specific applications. Producer's sole warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Producer specifically disclaims any other expressed or implied warranty of fitness for a particular purpose or merchantability. Producer disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.

Further Information:

In the event of further queries or problems concerning the use of this product, please e- mail: info@fix46.com or contact the address below.



**Fix 46 Supplier, Unit 9, Millennium Court,
Foxhole, Youghal, Co. Cork Ireland
Tel. 089 46 46 646**

**e-mail: info@fix46.com
[www. fix46.ie](http://www.fix46.ie)**