

TECHNICAL DATASHEET
GEBOFOAM B1 Polyurethane foam for gun use EI 240

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Polyurethane foam for gun use with safety valve

- **Fire resistant up to 240 min**
- **Fire reaction B1 according to DIN 4102-1**
- **Safety valve**

GEBOFOAM B1 is a self-expanding single-component polyurethane foam, red coloured, which hardens due to moisture in air. The propellant mixture is free of CFC, HFC and HCFC.

Application fields

GEBOFOAM B1 is specific for all building applications that require fire resistance. It is particularly suitable for fire doors, door and window frames, sealing of pipes and cables passages through walls, cracks, in roof construction, in floor walls, gluing of insulating materials, filling of cavities.

It has been tested in linear joints and, in use together with sealant Gebosil Acrilico Antifuoco EI 240 (Art. SILAC10), reaches a fire resistance of up to 240 minutes in joints of different sizes.



Characteristics

GEBOFOAM B1 complies with fire prevention specifications, as it's classified EI240 in fire resistance test and B1 in fire reaction test.

The uniform cellular structure, mainly of closed cells, the dimensional stability and the mechanical properties make the product ideal for fixing, insulating and sealing.

It has excellent adhesion to all the most common materials used in construction, both smooth and porous: wood, cement, plaster, metals, plastics (except polyethylene, teflon and silicone). The foam can be laid from +5 °C up to +35 °C.

Once hardened it is resistant to microorganisms and moulds and has excellent resistance to chemical agents. It can be drilled, cut, plastered and painted. GEBOFOAM B1 is waterproof and resists to temperatures between -40 °C and +90 °C and to ageing.

Once applied it must be protected from UV rays and sunlight.

The thermal and soundproofing features are excellent.

Preparation

Surfaces must be firm, clean, and free from dust and grease. Before starting work, remove loose particles. It may be necessary to strengthen the base deeply using suitable primers. Also prepare D500 detergent.

Ideal application temperature is around +20 °C. Cylinders that are too cold must be heated in lukewarm water. The temperature must never exceed +50 °C, otherwise there is danger of explosion. Cylinders that are too hot, e.g. those that were in a vehicle in summer, must be cooled.

Before starting work and before applying the foam, **moisten the surface with water.**

Mount the cylinder on the gun. Fit the plastic tube on the tip of the gun. Shake the cylinder thoroughly (about 15 – 20 times) before each use.

Follow the instructions on the cylinder.

The cylinder must always be kept with the valve pointing downwards. Operate the gun lever to dispense the foam. Output speed and amount of foam can be adjusted by turning the screw on the back of the gun.

Start extrusion from the farthest point and from the bottom to the top. Do not fill the cavity more than one half, as the foam increases its volume more than twice. Moisten also during and after application to obtain an excellent yield.

After use, tighten the screw in the back of the gun until one can no longer operate the trigger. Always store the gun with a foam bottle attached. Once the cylinder has been opened, it must be consumed within 4 weeks.

When a cylinder is empty, remove it carefully by pulling the trigger to release the remaining gas.

Fresh foam stains can be removed immediately with GEBOFOAM D500 detergent; this operation can be performed only before the foam hardens. The hardened foam can only be removed mechanically.

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Important

GEBIFOAM B1 foam hardens quickly and uniformly only if the base is sufficiently moistened. Insufficient moisture and over-filled cavities may cause subsequent undesired foam expansion. Joints wider and deeper than 4 cm must be filled in several layers. Wait 15-30 minutes between applications. Before each application spray lightly with water.

Protect the eyes, wear gloves and protective clothing. Coat floors and furniture with paper or plastic sheeting. Use only in well ventilated areas.

Store the container in a vertical position between +5 °C and +25 °C.

Pressurized container! Protect from sunlight and do not expose to temperatures exceeding +50 °C. Do not pierce or burn, even after use.

Contains flammable propellants. Do not spray on naked flames or incandescent materials. Keep away from sources of ignition. Do not smoke.

Packaging

Art. CS21 – 750 ml cylinder

Box containing 12 cylinders.

Storage

In its original packaging in a dry place, away from direct light, in a cool environment at temperatures between +5 °C and +25 °C the product has a shelf life of 15 months.

Disposal

Dispose of the product and its containers in a hazardous or special waste collection point.

Technical data

(determined at +20 °C, 50% relative humidity)

Base	polyurethane
Application temperature	from +5 °C to +35 °C
Tack free time	10-12 min (FEICA TM1014)
Cutting time	20-40 min (FEICA TM1005)
Full cure	80-100 min
Closed cells	around 70 %
Yield	40-45 litres (FEICA TM1003)
Density	15-20 kg/m ³
Thermal conductivity	30-35 mW/m·K
Temperature resistance	from -40 °C to +90 °C
Fire resistance	up to a 240 min. (see below)
Class of building material (DIN 4102-1)	B1

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Fire resistance classification
Foam only

joint thickness	joint width	integrity (E) and insulation (I) classification
100 mm	20 – 30 mm	EI 30 – V – X – F – W 20 to 30
100 mm	8 – 20 mm	EI 45 – V – X – F – W 8 to 20
100 mm	8 mm	EI 90 – V – X – F – W 8
115 mm	20 – 30 mm	EI 45 – V – X – F – W 20 to 30
115 mm	8 – 20 mm	EI 60 – V – X – F – W 8 to 20
115 mm	8 mm	EI 120 – V – X – F – W 8

With sealant Gebosil Acrilico Antifuoco EI 240

Sealant Gebosil Acrilico Antifuoco EI 240 on unexposed face, Gebofoam B1 on exposed face

joint thickness	joint width	integrity (E) and insulation (I) classification
115 mm	8 – 30 mm	EI 180 – V – X – F – W 8 to 30
115 mm	8 mm	EI 240 – V – X – F – W 8
115 mm	8 – 30 mm	E 240 – V – X – F – W 8 to 30

The classifications are valid for sealant applied from the unexposed face. The minimum depth of the sealant is 10 mm for a joint 8 mm wide, 15 mm for a joint 30 mm wide and linearly interpolated depth values for intermediate joints.

The rest of the joint is completely filled with Gebofoam B1.

Warranty

G&B Fissaggi Srl guarantees the inalterability of the product within the limits of its shelf life. Our liability cannot under any circumstances go beyond what is established by our sales conditions.

G&B Fissaggi Srl is not responsible under any circumstances for accidental or consequential damage.

Responsibility

These information and our technical indications match our knowledge and our experiences but do not constitute warranty in relation to the final results or liability arising out of any legal relationship. Considered the variety of materials, of handling and storage conditions, and of production and use conditions, all information and directions above shall be verified by the user according to the specific circumstances of use.