

EXPERT LINE PROFESSIONAL B1 GUN FOAM

PRODUCT DESCRIPTION

Expert Line Professional B1 is a fire-retardant polyurethane foam used for linear sealing and gap filling, it allows the parameters recorded in the National Technical Assessment to be achieved, for meeting the requirements of the PN-EN 13501-2:2016 standard. The foam is designed for filling vertical and horizontal linear joints between building elements made of concrete, reinforced concrete or masonry made of autoclaved aerated concrete blocks with a density of not less than 600 kg/m³. Expert Line Professional B1 foam can also be used for sealing the spaces between window and door frames (except those classified for fire resistance), as well as for professional installation, sealing and soundproofing.



APPLICATION

- › fireproof filling of linear seals and joints in walls and ceilings;
- › fitting doors and windows;
- › thermal insulation of water, sewage and central heating systems;
- › sealing and installation of window sills;
- › thermal insulation of flat roofs and ceilings;
- › filling gaps (up to 2 cm wide) in thermal insulation when insulating buildings.

PRODUCT PROPERTIES

- › Highly flammable foam (DIN 4102-1:B1).
- › Characterised by high mechanical strength.
- › Characterised by excellent adhesion to typical construction materials such as brick, concrete, plaster, wood, metals, polystyrene foam and rigid PUR foams. The foam is characterised by its lack of adhesion to silicone, Teflon, polyethylene and polypropylene.
- › Exhibits resistance to high and low temperatures.
- › Cures by moisture in the air.

Technical Data Sheet (TDS)

POLYURETHANE FOAM

- › Shows excellent thermal insulation and sound-proof parameters.
- › Resistant to mould and fungi.

TECHNICAL PARAMETERS

Colour	Light red (pink)
Working temperature	from +5°C to +30°C
Can temperature	from +10°C to +25°C (optimally +20°C)
Foam yield* * depends on air humidity and temperature, can temperature, quality of foam dispensing gun, worker's skills	up to 45 l
Skin formation time	6-8 min. (20°C, RH 90%)
Cutting time	18±10% [min.] (20°C, RH 50%)
Full hardening time	24 h
Increase in height (expansion degree) of the foam applied in the gap), %	36±10%
Thermal resistance (upon hardening)	from -50°C to +90°C
Thermal conductivity λ	0,036 W/(m·K)
Water absorbability after 24 hours in water when partially immersed	≤1 kg/m ²
Fire resistance	El 240 (depending on orientation and width)
Solubility in organic solvents	acetone, before hardening

The above table is for informational purposes only

DELIVERY FORM | PACKAGE

Aerosol can, 750 ml

DIRECTIONS FOR USE

Substrate preparation:

Thoroughly clean and degrease the substrate. Before application, moisten the surface with water mist to ensure better adhesion.

Product preparation:

Before use, warm the can with foam to room temperature (optimally +20°C) by, for example, immersing the can in warm water. Shake the can vigorously for 30 seconds to thoroughly mix the ingredients. Screw the can onto the expanding foam gun.

Foam application:

Dispense product in the upside-down working position. Fill the gap only in only to a fraction of the gap volume - the foam increases in volume during curing, no more than 4 cm per layer. Moisten the surface between each



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layer to improve good adhesion and speed up curing. Fill vertical gaps from bottom to top. Once fully cured use a knife to cut off any excess foam. When the foam has fully cured, it should be protected from UV radiation by covering it with silicon masses, plasters, paints etc.

If application is interrupted for more than 15 minutes, the foam dispensing gun should be secured, leaving the can screwed on the gun until the next use. Clean the expanding foam gun after every use using PU foam cleaner.

STORAGE AND EXPIRY DATE

Store in a dry, cool and well-ventilated place, in an upright position, in the original closed container. Keep away from heat, open flames and other ignition sources. Recommended storage temperature is from +5 °C to +30 °C (optimally +20 °C). Storing the product in conditions other than recommended may result in shortening its lifetime by up to 3 months. Do not store the product in the cabin of a car. Transport only in the trunk.

Expiry date: 12 months. Store and use before the expiry date indicated on the bottom of the container.

HEALTH AND SAFETY RECOMMENDATIONS

When using this product, normal occupational hygiene rules should be followed. Keep out of reach of children. Before use, familiarize yourself with the conditions for safe use of the product on the packaging and in this technical data sheet. Detailed information on the safety of use and hazards posed by the product is included in the Material Safety Data Sheet.

With the publication of this data sheet, all previous editions become invalid. Release: 01/25

The product information contained in the technical data sheet is the result of conducted research. With regard to the possibility of using the product (point 3 of this technical data sheet), they should be treated only as recommendations resulting from the manufacturer's experience. Due to the numerous application possibilities and a wide range of work methods using the product, the Manufacturer does not bear any responsibility in this respect, and in particular is not responsible for the consequences of improper use of the product or the effects of work involving the product. Product information is valid only in its most current version.

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