



Never compromise on quality!



B2 PU FOAM

Aerosol and Gun Grade Expanding Foam

Description

A fast setting, multi-purpose PU foam which bonds, fills, seals and insulates most construction materials, which has a fire rating to class B2 (DIN4102:1).

Bond It **B2 PU FOAM** is a one-component polyurethane assembly foam, and is based on a moisture curing polyurethane prepolymer. The development and manufacture of our products is subject to an approved quality assurance system according to ISO 9001/EN 29001.

Uses

The fresh foam adheres to all common building materials except from surfaces such as polyethylene, silicone, oil and grease and similar substrates.

Areas of Application:

- ◆ window setting (where a clean and controlled backfill is required),
- ◆ roller shutters (sealing of connection joints),
- ◆ entrance door linings,
- ◆ any kind of small breakthroughs in walls and other cavities,
- ◆ pipe and cable entries,
- ◆ thermal insulation.

The use of this product in certain fire rated situations may breach Building Regulations - if in doubt consult your local Building Control Office. For maximum fire resistance the cured foam should be overcoated with Bond It FIRESHIELD INTUMESCENT SEALANT or use Bond It B1 FIRE RATED PU FOAM.

Please note: this foam will burn in contact with flames but will self-extinguish when source of flame is removed.

Properties

The foam can be used at temperatures from +5°C to +30°C. The cured foam is semi-rigid and predominantly close-celled. It is resistant to temperatures ranging from -40°C to +100°C and to ageing, but not to UV-rays. Noise and heat insulation values are excellent.

Preparation

Surfaces to be bonded must be firm, clean, dry and free from dust, grease or contaminants that may hinder adhesion. They must be moistened well with

water. It is advisable to apply a primer well penetrating into the ground if necessary. All construction components must be properly prepared prior to foam application. It is advisable to have Foam Cleaner at hand.

The ideal working temperature for both the can and environment is +20°C. Chilled cans must be carefully warmed in luke-warm water before usage. However, the can must not be heated above +50°C, as there is a risk of bursting. Cans which are too hot, for example after having been left in a vehicle during summer, must be cooled in water. The can should be shaken occasionally during this process to obtain the required temperature faster.

Prior to work, and before the adaptor is attached, the can must be shaken thoroughly at least 15 - 20 times. Then the adaptor is attached firmly to the valve. Care must be taken not to overtighten the adaptor and not to activate the valve during this process.

Application

The instructions for the can must strictly be observed. The fresh foam will expand by 2-2½ times. Therefore care must be taken not to overfill joints. Fresh foam spills must be removed immediately within the tack-free time with Foam Cleaner. Cured foam must be removed mechanically or with Bond It CURED FOAM REMOVER.

Please Note: Moisture is needed for an even and rapid curing of the foam. Inadequate moistening or overfilling of joints and cavities may lead to an unwanted post-expansion of the foam. Foam extrusion can be controlled accurately by varying the pressure. For foam extrusion the valve is pointed down. The valve lever is to be activated carefully. Once a can has been started, it should be used within four weeks.

Container Size

745ml aerosol and gun grade canisters.

Storage Conditions

Store and transport upright, in cool, dry conditions. (Considerably higher temperatures may reduce the shelf-life).

Shelf Life

12 months when stored according to manufacturers instructions in original unopened containers.

Disposal of Containers

Do not leave empty containers where residue could be harmful to children, animals or the environment. Replace lids and remove any containers to a central disposal point in accordance with local regulations. Do not pierce can.

In the event of spillage remove all sources of ignition, ventilate the area, remove people from confined areas. Material should be mopped up immediately with an inert absorbent material such as sand.

Health & Safety

Please refer to separate material safety data sheet for full handling, use and storage instructions. Keep out of reach of children. It is the users responsibility to determine suitability for use. If in doubt contact our Technical Department for advice.

Note: this information is for general guidance only, since site conditions and labour are beyond our control. It is recommended that users make their own tests to determine suitability.

Specification Summary

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

Yield, free expansion	bulk density approx 25-30 kg/m ³
Tack-free	12-16 minutes
Cuttable (30 mm bead)	after 30-40 minutes
Full cure	after approx 18 hours
Minimum working temperature (Can, application surfaces)	+5 °C
Maximum working temperature (Can, application surfaces)	+30 °C
Optimum working temperature (Can, application surfaces)	+20 °C
Tensile strength (in accordance to DIN 53430)	10 N/cm ²
Flaspoint of cured foam	400°C
Shear strength (in accordance to DIN 53427)	8 N/cm ²
Compressive strength at 10% stress (in accordance to DIN 53421)	3 N/cm ²
Thermal conductivity approx.	0.04 W/mK
Temperature resistance of the cured bead	
Long-term	-50 °C to +90 °C
Short-term	-65 °C to +130 °C
Flashpoint	400°C
Tensile Strength (Gun) BS5421	10N/cm ²

Container Sizes:

Code:	BDEFB2	BDEFGB2
Size:	745ml	745ml Gun
Barcode:	5060021367211	5060021367204

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties rights and, if necessary clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.



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ISO 9001
ISO 14001



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