

FILL AND FIX

Aerosol and Gun Grade Expanding Foam

Description

A fast setting, multi-purpose PU foam which bonds, fills, seals and insulates most construction materials.

Bond It **EXPANDING FOAM** is a one-component polyurethane assembly foam, and is based on a moisture curing polyurethane prepolymer. It contains an environmentally safe propellant, which complies to the latest EU regulations banning all CFC- and HCFC-propellants.

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.

Properties

The foam can be used at temperatures from +5°C to +25°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 1 ½ to 2 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 or by tilting the adaptor. 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

500ml & 750ml aerosol can.

Storage Conditions

Store and transport upright, in cool, dry conditions (Considerably higher temperatures may reduce the shelf-life). Shelf life is 9 months.

Disposal of Containers

Do not leave empty containers where residue could



CFC FREE

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

Bond It **EXPANDING FOAM** contains combustible components and isocyanate.

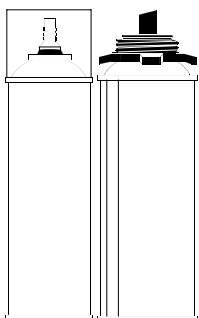
- ◆ Flammable - remove all sources of ignition. Do not smoke.
- ◆ Avoid eye contact. In the event of contact wash with running water for 15 minutes and seek medical attention. Wear goggles.

- ◆ Ensure good ventilation - avoid breathing vapours - harmful by inhalation. In case of insufficient ventilation, wear suitable respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (if possible show the label).
- ◆ Avoid prolonged contact with skin. Cured material will leave a brown stain, allow stain to fade naturally over 2-3 days. Do not try to remove with abrasive. Wear gloves.
- ◆ Thoroughly wash hands with soap and water or a proprietary hand cleaner after use.
- ◆ Keep out of reach of children.
- ◆ See separate material safety data sheet for full handling, use and storage.

Specification Summary

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

Yield, free expansion	bulk density approx 18 kg/m ³
500 ml can	approx 25 litres
750 ml can	approx 38 litres
Raw density (confined space)	approx 25 kg/m ³
Cell-structure	medium-fine
Tack-free	8-10 minutes
Cuttable (20 mm bead)	after 15-20 minutes
Full stability load bearing (20 mm bead)	after approx 12 hours
Minimum working temperature (Can, application surfaces)	+5 °C
Maximum working temperature (Can, application surfaces)	+25 °C
Optimum working temperature (Can, application surfaces)	+20 °C
Tensile strength (in accordance to DIN 53430)	18 N/cm ²
Elongation at tension (in accordance to DIN 53430)	30 %
Shear strength (in accordance to DIN 53427)	8 N/cm ²
Compressive strength at 10% stress (in accordance to DIN 53421)	5 N/cm ²
Water absorption (in accordance to DIN 53433)	0.3 Vol.-%
Thermal conductivity approx.	0.04 W/mK
Temperature resistance of the cured bead	
Long-term	-40 °C to +80 °C
Short-term	-40 °C to +100 °C



Container Sizes:

Code:	BDFIX500	BDFIX750	BDFIXG750
Size:	500ml	750ml	750ml Gun Grade

The data given herein is intended as a general guideline only. Actual results achieved may vary with working conditions and the materials involved; which are beyond the control of the manufacturer. Results achieved may not constitute any ground for a claim against the manufacturer. The manufacturer can only guarantee the quality of the product itself. This data sheet cancels and replaces all previous editions.

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