



MEGA FOAM

PU Expanding Foam



Description

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

Bond It **MEGA FOAM** is a one-component polyurethane assembly foam, and is based on a moisture curing polyurethane prepolymer.

Benefits:

- Multi-directional valve - 360° application
- Can be used either as a gun grade version (EasyGun - Pat. EE05028, EP2004520, US2009174183) or as an aerosol version.
- Higher yield
- More foam per can with less waste
- Longer life compared to a standard can
- Specially Coated Valve - problem free and will not corrode
- Space saving as you only need to stock 1 can!

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 and door setting (where a clean and controlled backfill is required),
- ◆ 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 or gun is attached, the can must be shaken thoroughly for at least 30 seconds to mix the contents. 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 1½ 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.

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 on the adaptor or gun trigger. For foam extrusion the valve is best pointed down, but it will work through 360°. 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 cans which can be fitted with either the EasyGun applicator or a standard foam gun.

Storage Conditions

Store and transport upright, in cool, dry conditions (Considerably higher temperatures may reduce the shelf-life). Shelf life is 18 months.

Health & Safety

Phosphoric trichloride, reaction products with propylene oxide; Butane; Dimethyl ether. Extremely flammable aerosol. Pressurised container: May burst if heated. Harmful if swallowed or if inhaled. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause harm to breast-fed children. May cause damage to organs through prolonged or repeated exposure. If medical advice is

needed, have product container or label at hand. Keep out of reach of children. Read label before use. IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of the contents/containers in accordance with the current legislation on waste treatment. Pressurised container: protect from sunlight and do not expose to temperatures exceeding +50°C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Contains isocyanates. May produce an allergic reaction. Persons already sensitised to diisocyanates may develop allergic reactions when using this product.

Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Specification Summary

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

Yield, free expansion	bulk density approx 20-25 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	10-14 minutes
Cutttable (20 mm bead)	after 35-45 minutes
Full stability load bearing (20 mm bead)	after approx 18 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)	10 N/cm ²
Compressive strength at 10% stress (in accordance to DIN 53421)	4 N/cm ²
Thermal conductivity approx.	0.3 W/mK
Temperature resistance of the cured bead	
Long-term	-50°C to +90 °C
Short-term	-65°C to +130 °C

Container Sizes:

Code:	BDEF500	BDEF750
Size:	500ml	750ml
Barcodes:	5060021360731	5060021360748

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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