

MEGAFOAM Information Sheet



Description

MegaFoam is a fast setting, multi-purpose PU foam which can either be used by hand or in an applicator gun. It is ready to use and bonds, fills, seals and insulates most construction materials. Once cured it can be cut, sawn, sanded, painted or plastered over.

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

Properties:

MegaFoam 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.

Directions for use:

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 our 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.

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

Areas of Use

- The fresh foam adheres to all common building materials except 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.

Key Benefits

- Multi-directional valve – 360° application.
- Can be used either as a gun grade version or as an aerosol version.
- Higher yield per can with less waste.
- Twice the life of a standard can.
- Specially coated valve – problem free and will not corrode.
- Excellent noise and heat insulation values.

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Product Data

Packaging: 750ml cans which can be fitted with either an applicator or foam gun.

Shelf Life: 24 months, however, once a can has been started it should be used within 4 weeks.

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

Spillages: Clean spillages promptly. Non-hardened materials may be removed from surfaces or tools with water.

Important Information

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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.

Disposal:

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

Health and Safety:

- 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 our recommended respiratory equipment. In case of accident or if you feel unwell, seek medical advice immediately (if possible show the product 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 more in depth information.

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