MAPEPUR MULTI ADHESIVE FOAM G

One-component adhesive polyurethane foam





WHERE TO USE

MapePUR Multi Adhesive Foam G is used to bond construction elements used in the building industry such as bricks, cement, wood and metal and for bonding EPS, XPS and mineral wool insulating panels.

Some application examples

· Bonding non-structural building components.
· Fastening support frames in place for door and window fittings.
· Bonding bricks and pre-cast engineered blocks.
· Bonding EPS, XPS and mineral wool panels in external insulation systems.
· Bonding encased electrical fittings such as cable-runs and junction boxes, including in plasterboard walls.

TECHNICAL CHARACTERISTICS

MapePUR Multi Adhesive Foam G is a low-expanding foam contained in a pressurized spray can with a special fitting enabling the foam to be fed with a **MapePUR Gun Standard**.
MapePUR Multi Adhesive Foam G is a one-component foam made from a mixture of polyurethane pre-polymers, special foaming agents and additives. It contains no CFCs, which makes it harmless for the ozone layer. The extruded foam hardens rapidly upon contact with the moisture in the air to form a stable structure with excellent mechanical characteristics and high insulating and soundproofing properties.
MapePUR Multi Adhesive Foam G is waterproof and is resistant to temperatures from -40°C to +90°C, humidity and the effect of ageing. The foam adheres well to all materials normally used in the building industry such as brickwork, concrete, gypsum, wood, metal, glass, foam polystyrene, PVC and rigid foam polyurethane and is also resistant to the formation of mould and mildew.
Once hardened the foam can be cut, sanded, ground, drilled or painted. According to German standard DIN 4102 part 1, its flammability class is B2.

RECOMMENDATIONS

The product does not adhere to polyethylene, silicone or Teflon. Also, once applied, it must be protected from direct exposure to UV rays to prevent the surface from being damaged.

APPLICATION PROCEDURE

Preparation of the substrate

The surface on which the foam is to be applied must have no traces of dust, it must be clean with no grease or oil stains and any loose or detached material must be removed. Protect delicate surfaces next to the area where the product is being applied with masking tape to prevent the product going onto them.

Preliminary operations before application of the foam

The surrounding temperature when applying the foam must be between +5°C and +30°C.
The foam performs best (maximum hardening rate) if the can and contents are at a temperature between +20°C and +25°C.
If necessary heat the can in hot water (maximum +40°C) for 15-20 minutes before use.
Before applying the product, hold the can upside down and shake well for at least 30 seconds to thoroughly mix the contents of the can. The can should also be shaken every time application is interrupted for long periods in order to improve its yield and to improve application. Dampen substrates prior to application by spraying them with nebulised water.

Application of the foam

Screw the can to the threaded collar of a **MapePUR Gun Standard**. Open the flow regulation valve for the foam located at the back of the gun. Point the gun towards the area to be filled and press the trigger. The amount of foam to be fed into the area may be regulated with the trigger and the feed screw located at the back of the gun. To replace the can of **MapePUR Multi Adhesive Foam G** in the gun, shake the new can well, unscrew the empty can from the gun and insert the new can immediately so the foam does not solidify inside the gun.
Apply the **MapePUR Multi Adhesive Foam G** in a series of parallel beads on one of the surfaces to be bonded so that they cover no more than 25-30% of the surface; always leave a gap between each bead.
Immediately after applying the product, we recommend spraying the foam with water to get a better yield and optimum polymerisation.
Immediately after applying the foam bond the components by pressing them together.
If necessary, keep pressed for a sufficient length of time.
Once hardened, any excess foam can be cut, sanded, ground, drilled, skimmed with cementitious products or painted.

RECOMMENDATIONS BEFORE, DURING AND AFTER APPLICATION

If only part of the can of **MapePUR Multi Adhesive Foam G** is used, close the flow regulation valve and leave the can attached to the **MapePUR Gun Standard** for up to a maximum of 2 weeks.
If work is interrupted for long periods, on the other hand, we recommend unscrewing the can from the **MapePUR Gun Standard** and cleaning all traces of foam from the external surfaces and the internal circuit of the gun with **MapePUR Cleaner.**
To clean the internal circuit, screw a can of **MapePUR Cleaner** to the collar in the **MapePUR Gun Standard** and spray the solvent for a few seconds until it comes out of the gun with no traces of foam. Unscrew the **MapePUR Cleaner** can from the gun and spray the remaining solvent from the internal circuit by pressing the trigger of the gun.
Dispose of the **MapePUR Cleaner** used for cleaning purposes carefully.
Store the partially used can vertically after use. Before using it again, shake for 30 seconds as described previously.
MapePUR Multi Adhesive Foam G is contained in pressurized cans and must be not be exposed to direct sunlight or temperatures higher than +50°C.
We recommend wearing safety goggles and gloves to protect the eyes and skin while preparing and using the product. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. Do not spray the product onto naked flames or hot surfaces. Do not smoke. Harmful if inhaled; use in well ventilated areas only. Keep away from children.
Do not open, puncture or burn the can, even when empty.
After polymerisation **MapePUR Multi Adhesive Foam G** is no longer hazardous.
For further information, please refer to the Safety Data Sheet available upon request.

CLEANING

The foam may be removed before it hardens by spraying **MapePUR Cleaner** on the surface to be cleaned. **MapePUR Cleaner** is a solvent-based product and may discolour surfaces it comes into contact with: we recommend carrying out preliminary tests to verify its compatibility with the substrate to be cleaned. Once hardened, the foam may only be removed mechanically.

PACKAGING

MapePUR Multi Adhesive Foam G: 750 ml spray can.
MapePUR Cleaner: 500 ml spray can.

YIELD

One can of **MapePUR Multi Adhesive Foam G** is sufficient for around 70 metres of 30 mm diameter beads or for bonding around 10÷12 m^2 of insulating panels.

The actual yield of the product depends on the surrounding level of humidity and the temperature of the air and contents of the can.

STORAGE

MapePUR Multi Adhesive Foam G may be stored for 18 months if kept vertical in a dry, covered area in its original sealed packaging at a temperature between +10°C and +25°C.
MapePUR Cleaner may be stored for 18 months if kept in a dry, covered area in its original sealed packaging at a temperature of between +10°C and +25°C.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Instructions for the safe use of our products can be found on the latest version of the Safety Data Sheet, available from our website www.mapei.com.
PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)		
PRODUCT IDENTITY		
	MapePUR Multi Adhesive Foam G	MapePUR Cleaner
Consistency:	thixotropic	liquid
Colour:	yellow	transparent
Flammable:	yes	yes
APPLICATION DATA		
Application temperature:	+5°C to +30°C	+5°C to +30°C
Optimum can/contents temperature:	+20°C to +25°C	+20°C to +25°C
FINAL PERFORMANCE		
Dust dry (at +23°C and 50% R.H.) (minutes):	10-15	
Service temperature:	-40°C to +90°C	
Complete hardening time (h):	1-2	
Compressive strength (N/cm²):	4.5	
Tensile strength (according to ETAG 004) (N/cm²):	8.0	
Elongation at failure (%):	25	
Density (kg/m³):	16-18	
Shrinkage (after 24h at +20°C and 60% R.H.) (%):	1	
Water absorption after 24 h (%):	1	
Thermal conductivity at +20°C (DIN 52612) (W/m·K):	0.036	

Flammability class (DIN 4102-1):	B2
Flammability class (EN 13501-1):	E

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.
Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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