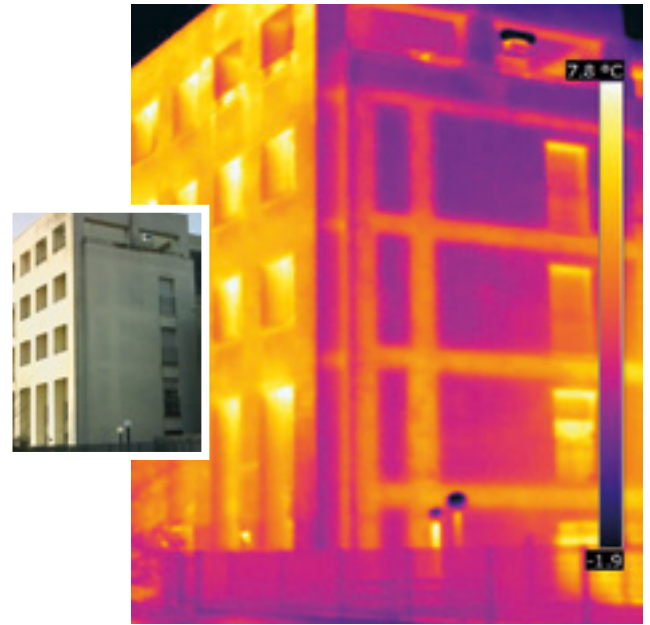
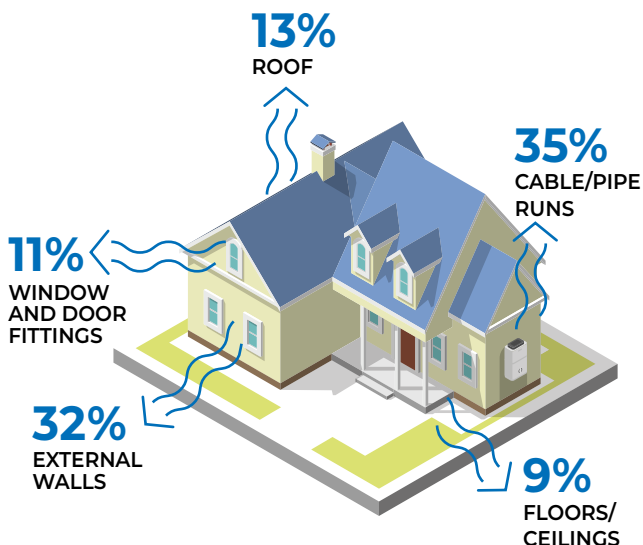


SELECTION CHART FOR SELF-EXPANDING FOAMS



THERMAL AND ACOUSTIC INSULATION WITH MAPEI QUALITY

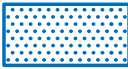
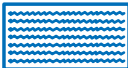





Buildings are made up of different building materials and it is inevitable that gaps and breaks are left when these materials are placed alongside one another. Draughts and noise can filter through these gaps, thereby reducing the comfort of those who use or inhabit the building and the overall energy efficiency of the building. To improve the thermal and acoustic insulating capacity of a building, it is important that these **gaps are reduced or eliminated** by filling them with a suitable insulating product, otherwise they could become the source of thermal bridges. **Self-expanding polyurethane foams** are **ideal for insulating buildings against heat, cold and noise**, in that they are practical and easy to use to get rid of gaps and breaks created during construction work. Thanks to the chemical reaction that takes place when polyurethane foams come into contact with water vapour, they are free to expand and fill gaps and breaks, even in areas that would otherwise be difficult to reach. When polyurethane foam hardens, it forms a light but consistent **insulating, adhesive mass** that is easy to trim and cut to shape and which provides protection against heat, cold and noise, thus increasing our sense **of wellbeing and comfort**.



WARM AREAS

COLD AREAS

A **25 MM** THICK HARDENED LAYER OF **MAPEPUR FOAM** HAS THE SAME INSULATING PROPERTIES AS:

-  **40 mm** of polystyrene
-  **45 mm** of mineral wool
-  **50 mm** of cork
-  **65 mm** of masonite
-  **140 mm** of wood
-  **400 mm** of limestone
-  **850 mm** of brickwork

MAPEPUR FOAMS TO SUIT EVERY NEED

The **MapePUR** range is made up of various products formulated to meet specific requirements: adhesive foams, insulating foams, watertight foams, multi-purpose foams.

The **MapePUR** foam range is also conceived to suit **different types of users**: foams for gun application, characterised by high yield and maximum extrusion accuracy (**MapePUR** G series), and foams for manual application, not requiring specific extrusion tools (**MapePUR** M series).



^ MapePUR M series for manual application



^ MapePUR G series for gun application



FIRE SAFETY

Polyurethane foams are often applied indoor.

This is why, in case of fire, it is important to know their resistance and reaction, in order to properly evaluate the total fire load of the environment they were applied in.

MapePUR foams are characterised by **different degrees of reaction to fire** (class B1, B2, B3 according to EN DIN 4102) and by **different degrees of fire resistance** (EI class according to EN 13501-2).

- **EI CLASS FROM 30 TO 240 (EN 13501-2)** — Resistant to fire
- **B1 CLASS (EN DIN 4102)** — Difficult to ignite, fast self-extinguishing reaction
- **B2 CLASS (EN DIN 4102)** — Normal combustibility, self-extinguishing properties
- **B3 CLASS (EN DIN 4102)** — Easily ignited



A SPECIFIC SOLUTION FOR EACH INSULATION REQUIREMENT

MapePUR Roof Foam G Roof Foam M

Adhesive foam for **roofs and coverings**



Gun application



Manual application

CHARACTERISTICS

- bonds roof tiles
- Low expansion, high adhesion
- Fills and insulates gaps
- B2 class reaction to fire
- CFC free
- Maximum yield and no waste (G version)

Thermal insulation MapePUR Roof G	0.036 W/(m K)
Thermal insulation MapePUR Roof M	0.039 W/(m K)
Adhesion to brickwork	12.5 Kg/cm ²

MapePUR Rooftop G

Adhesive foam for **flat roofs**



Gun application

CHARACTERISTICS

- Bonds insulating panels on flat roofs
- Certified resistance to wind load according to EN 16002
- Low expansion, high adhesion
- B2 class reaction to fire
- CFC free
- high yield

Thermal insulation	0.036 W/(m K)
Acoustic insulation	58 dB

MapePUR Multi Adhesive Foam G

Multi-purpose adhesive foam



Gun application

CHARACTERISTICS

- Bonds light construction elements
- Also suitable for insulating panels
- Low expansion rate, high adhesion
- Adhesive resistance according to ETAG 004
- Easy to use, quick to apply, affordable price
- CFC free
- B2 class reaction to fire

Thermal insulation	0.036 W/(m K)
Acoustic insulation	58 dB
Tensile strength	0.8 kg/cm ²

Due to the printing process involved, the colours shown are merely indicative.

MapePUR Universal Foam G Universal Foam M

Multi-purpose foam



Gun application



Manual application

CHARACTERISTICS

- High expansion rate
- High thermal and acoustic insulation
- CFC free
- Maximum yield and no waste (G version)
- B3 class reaction to fire

Thermal insulation MapePUR Universal Foam G	0.036 W/(m K)
Thermal insulation MapePUR Universal Foam M	0.039 W/(m K)
Acoustic insulation	58 dB

MapePUR 2K Adhesive

Adhesive assembly foam



Manual application

CHARACTERISTICS

- Bonds construction elements
- Two-component foam, reacts without humidity even in small spaces
- Ultra-rapid hardening
- Low expansion, high adhesion
- High density, high insulation and mechanical strength

Compressive strength	12.5 kg/cm ²
Density	35 kg/m ³
Thermal insulation	0.029 W/mK

MapePUR All in One Foam

Multi-purpose foam



Gun or manual application

CHARACTERISTICS

- Double application mode: manual and with gun
- Ideal packaging for small and bigger applications
- B2 class reaction to fire
- CFC free

Thermal insulation	0.039 W/(m K)
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MapePUR Waterstop G MapePUR Waterstop M

Watertight foam



Gun application



Manual application

CHARACTERISTICS

- Waterproofing wells and pipes
- Quick and easy application
- Filling and sealing
- Resistance to the action of water, dirt and roots
- CFC free

Resistance to hydraulic pressure	0.5 bar
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MapePUR Fire Foam M

Fire-resistant foam



Manual application

CHARACTERISTICS

- High expansion rate
- Certified fire resistance up to EI 240'
- B1 class reaction to fire
- CFC free

Thermal insulation	0.039 W/(m K)
Acoustic insulation	58 dB
Resistance to fire	EI 90' to EI 240'

MapePUR Cleaner

Solvent-based cleaning solution





































Gun or manual application


CHARACTERISTICS

- Cleans and removes foam while still fresh
- Manual application for tools and surfaces
- Gun application to clean equipment
- CFC free

Due to the printing process involved, the colours shown are merely indicative.

RELIABLE PERFORMANCES, GUARANTEED RESULTS

		MapePUR Universal Foam M	MapePUR Universal Foam G	MapePUR All in One	MapePUR Fire Foam M	MapePUR Roof Foam M
Product characteristics	Packaging	750 ml	750 ml	750 ml	750 ml	750 ml
	Components	1	1	1	1	1
	Colour	yellow	yellow	yellow	pink	grey
	Filling					
	Bonding					
	Waterproofing					
	Yield in free expansion	45 litres (30 litres)	45 litres	38-45 litres	40-45 litres	45 litres
	Yield in beads	20	60	30-50	30	30
	Thermal resistance	-40/+90°C	-40/+90°C	-40/+90°C	-40/+90°C	-40/+90°C
	Resistance to fire				Up to EI240	
	Reaction to fire	B3	B3	B2	B1	B2
	Finishing after hardening	1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours
	Thermal insulation	0.039 W (m·K)	0.036 W (m·K)	0.039 W (m·K)	0.039 W (m·K)	0.039 W (m·K)
	Acoustic insulation	58 dB	58 dB		58 dB	
	Impermeability to water	good	good	good	good	good
	density	22 kg/m ³	17 kg/m ³	17 kg/m ³	24 kg/m ³	20 kg/m ³
Insulating	Door and window frames					
	Roller shutters					
	attics					
	Pipes passing through concrete					
	Thermo-hydraulic pipes					
	Fire-break joints					
	Prefabricated elements					
	Wells and hydraulic pipes					
	External thermal insulation					
	Gaps and breaks					
Bonding	Coating elements					
	Vertical insulating sheets					
	Horizontal insulating sheets					
	Rectified brick blocks					
	Electrical system					
	Board coverings					
	Roof tiles					
	counterframes					

 Ideal application

 possible application

MapePUR Roof Foam G	MapePUR Multi Adhesive Foam G	MapePUR 2K Adhesive	MapePUR Rooftop Adhesive G	MapePUR Waterstop M	MapePUR Waterstop G	MapePUR Cleaner
750 ml	750 ml	400 ml	750 ml	750 ml	750 ml	500 ml
1	1	2	1	1	1	1
grey	yellow	yellow	yellow	yellow	yellow	transparent
45 litres	10-12 m ² (insulating panels)	14 litres	8-12 m ² (insulating panels)	40 litres	45 litres	
60	70		70	25	50	
-40/+90°C	-40/+90°C	-30/+80°C	-40/+90°C	-40/+90°C	-40/+90°C	
B2	B2	B2	B2	B3	B3	
1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours	1.5 to 5 hours
0.036 W (m·K)	0.036 W (m·K)		0.038 W (m·K)			
good	good	good	good	excellent	excellent	
19 kg/m ³	17 kg/m ³	35 kg/m ³	14 kg/m ³	22 kg/m ³	22 kg/m ³	

ACCESSORY TOOLS FOR A MORE PRACTICAL USE

MapePUR Dispenser M

Spare nozzles for MapePUR M series
(hand-held spray cans).



MapePUR Easy Spray

Reusable ergonomic grip for MapePUR M series
(hand-held spray cans), to improve extrusion accuracy
and ease application.



MapePUR Gun Standard

Extrusion gun for MapePUR G series
(gun extrusion spray cans).



MapePUR Gun Special

Pro-grade high-precision extrusion gun for MapePUR G
series (gun extrusion spray cans).

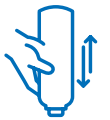


APPLICATION PROCEDURE OF FOAMS



Manual application

Before use store the product right way up in a covered area and at recommended temperatures



01. Hold the can upside down and **shake** for 30 seconds



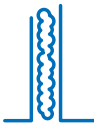
02. Screw the **nozzle**



03. **Dampen** the surfaces



04. Start extruding from the **lowest** and deepest **point**



05. Fill **2/3** of the total volume



06. **Clean** the head of the can and the extrusion straw with **MapePUR Cleaner**



07. Store the can **right side up** for future applications



08. Let the foam **expand**



09. **Cut off** excess foam



10. **Paint** or smooth the surfaces (if in exterior)

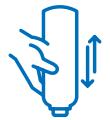


Use the necessary SPD



Gun application

Before use store the product right way up in a covered area and at recommended temperatures



01. Hold the can upside down and **shake** for 30 seconds



02. Screw the **gun** to the can



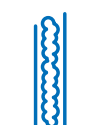
03. Open the **gun valve**



04. **Dampen** the surfaces



05. Start extruding from the **lowest** and deepest **point**



06. Fill **2/3** of the total volume



08. **Clean** the head of the can and the internal circuit of the gun with **MapePUR Cleaner**



09. Store the can **right side up** for future applications



10. Let the foam **expand**



11. **Cut off** excess foam



12. **Paint** or smooth the surfaces (if in exterior)



Use the necessary SPD

EVERYTHING'S OK, WITH MAPEI

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