

TECHNICAL DATA SHEET **ESPUMAX® PU/Xpress Fixer**

Product description

ESPUMAX® PU/Xpress Fixer is a low-expansion polyurethane foam with high mechanical strength, specially formulated for fixing, assembly and rapid installation work on all types of construction materials. It is particularly suitable for fixing XPS thermal insulation panels, acoustic insulation, skirtings, door and window frames, skirting boards, covers, wall coverings, sanitary ware, plastics (except HDPE, LDPE, PP, PTFE and silicone).

Thanks to its fast fixing and low expansion formula, it is also suitable for filling and sealing gaps and cavities in partition and wall installations where deformations or movements due to over-expansion of the foam must be avoided, e.g. aluminium and PVC framing, delicate substrates, etc.

Physical and chemical characteristics of the product

Colour	cream yellow
Density (TM 1019:2014)	14.5 kg/m ³
Skin formation time (TM 1014:2013)	3 – 4 min.
Cutting time (TM 1005:2013)	7 – 10 min.
Heat resistance	-50 °C to +90 °C
Tensile strength (TM 1012:2013)	121 kPa
Shear strength (TM 1018:2015)	320 kPa
Fire rating (DIN 4102-1)	B3
Determination of volume by water displacement (TM 1007:2013)	43.5 L
Dimensional stability	-1.42 % (21 °C) -3.98 % (40 °C)
Gun application coverage (linear metres, Ø 20-30 mm)	70 m
Nozzle application coverage (linear metres, Ø 20-30 mm)	36 m

Once cured, it can be machined: sanded, polished, cut or painted. Touch dry time < 5-6 min.

- Chemical resistance of the cured product:

Good water and damp resistance (not 100 % waterproof). Reasonably weather-resistant; must be protected from UV radiation. When left exposed outdoors without protection, polyurethane foams tend to darken and turn dark brown. Good resistance to atmospheric elements. Good resistance to solvents and oils.

Applications

Fixing thermal expanded polystyrene (EPS), extruded polystyrene (XPS) or polyurethane (PUR) insulation panels to the substrate or to each other.
 Fixing masonry materials.
 Securing mouldings and carpentry.
 Fixing door and window frames and sub-frames.
 Insulating aluminium framing.
 Filling and insulating openings on any substrate, partition walls, dry plasterboard partition walls and walls (including fragile ones).

Instructions for use

Optimal application temperature: -10 °C to +35 °C

Surface preparation:

Thoroughly clean the surface, removing all traces of dust, grease or cohesionless substrates. Slightly dampen for rapid, optimal expansion.

A lack of moisture may slow curing of the foam and cause uncontrolled expansion with burrs and/or breakouts.

It is recommended to protect nearby surfaces with masking tape.

Applying the foam:

Manual application with tube:

- Vigorously shake the container 15-20 times before applying.
- Screw the application tube onto the aerosol valve. Turn the container upside down and gently press the lever until the product appears. Then apply in dots or beads onto one of the surfaces to be bonded.
- Use manual pressure to adjust the flow rate of the product.
- Once the product has been applied, wait 1 to 2 minutes to allow the foam to generate an internal structure. Pressure can be applied 2 minutes after the joint has been made.

Gun application:

- Vigorously shake the container 15-20 times before applying.
- Gently screw the product container onto the gun. The thread of the gun valve should be fully closed with the trigger locked and fully retracted. Make sure that it is screwed on completely without overtightening.
- Use the regulator on the gun body to adjust the flow rate. Squeeze the trigger and gently apply dots or beads onto one of the surfaces to be bonded.
- Once the product has been applied, wait 1 to 2 minutes to allow the foam to generate an internal structure. Pressure can be applied 2 minutes after the joint has been made.

*Polyurethane foams are sensitive to humidity. Where humidity is low, the curing of the product may be delayed; in these cases the substrate can be sprayed with water.

For filling jobs, only apply up to 2/3 of the hole or cavity.

Manual application with tube:

- After application, close the applicator on itself (folding the tube into three sections) to facilitate reuse in future applications.

Gun application:

- After application, use the regulator on the gun body to shut off the flow completely, remove the container gently by unscrewing anticlockwise and clean the gun using ESPUMAX® CLEANER (504804) to prevent clogging inside the gun and ensure it can be used again in the future.

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Not suitable for HDPE, LDPE, PP, PTFE, PC, PMMA, bituminous substrates and neoprene.

Dissolving and cleaning

To remove excess freshly-applied foam, use ESPUMAX® CLEANER (504804) for polyurethane foams. Do not use other thinners, degreasers or water under any circumstances.

Water accelerates the curing of foams.

To remove excess cured foam, use mechanical means.

Storage

Shelf life: 12 months

Store between 10 °C and 25 °C in its original packaging and protected from direct sunlight and moisture.

Always store in an upright position.

Safety precautions

It is recommended to wear protective gloves and eye protection.

When applying products in pressurised containers, do not use near ignition sources. Protect from sunlight and do not

expose the container to temperatures above 50 °C. Do not handle, modify, puncture or burn the container, even once it is empty. Do not apply or spray on a naked flame, sources of ignition or incandescent materials. Do not smoke near the container or during application. Work in a sufficiently ventilated area and keep out of the reach of children. Vapours that accumulate in insufficiently ventilated areas may reach concentrations that are flammable or harmful.

Highly flammable.

Harmful.

Contains isocyanates.

For further information consult the MSDS (Material Safety Data Sheet).

The information given in this data sheet is for guidance only. Due to the wide variety of materials and conditions under which our products are used, we do not assume any responsibility for the final result obtained or any damage caused by misuse. It is the responsibility of the end user to determine the feasibility and suitability of using ESPUMAX® PU/Xpress Fixer for the technical solution to any application.

Please contact our Technical Department if you have any queries.

The information given in this Technical Data Sheet should never be considered as a specification of the product's properties.

We guarantee the uniformity of the properties of our products in all supplies. The recommendations and information published in this technical data sheet are based on our current knowledge and rigorous laboratory tests. Due to the many variations in each project's materials and conditions, we ask our customers to conduct their own tests of utility under the expected working conditions and following our general instructions. This will avoid any subsequent damage, for the consequences of which the company is not responsible.