

TECHNICAL DATA

ESPUMAX® PU/300 Insulate and Fill

Product description

Espumax® PU/300 is a high-expansion (300%) polyurethane foam especially suitable for sealing, filling and sound (up to 60 dB) and thermal (reduction up to 30%) insulation.

Once applied, expands to up to 40 litres, forming a hollow-cell three-dimensional structural barrier to sound, heat and moisture.

Espumax® PU/300 incorporates new Structural Cell Technology (SCT) and adapts to its application conditions, expanding in accordance with its physical and chemical environment, the type of application and the physical space available. It can also be applied at any angle, thanks to its multi-position canister, for working on roofs, in attics or other confined spaces.

Once hardened, this product is resistant to water and chemicals and it may be cut, sanded, polished or painted once dry.

Physical and chemical characteristics of product

Density (TM 1002)	g/l	19-21
Maximum strength achieved in	(hr.)	5-12
Skin formation time (TM 1014)	(min.)	8-12
Touch dry time	(min.)	30
Cutting time (TM 1005)	(min.)	45
Full seal cure time (23°C)	(hr.)	<16
Curing pressure (TM 1009)	(kPa)	<2
Post-expansion (TM 1010)	%	<150
Seal density (WGM106)	(kg/m ³)	<25
Dimensional stability (TM1004)	%	<2
Temperature resistance	(°C)	-50 to 70
Fire classification (DIN 4102-1)		B3
Tensile strength (TM 1018)	(kPa)	20
Compressive strength (TM 1011)	(kPa)	12
Thermal conductivity (EN 12667)	(W/(m·K))	0,033
Acoustic reduction index (EN ISO 10140)	dB	62
Yield (TM 1003)	(l/750 ml canister)	40

Applications

Sealing and filling voids and joints, insulating air spaces, air-conditioning installations, fitting doors and windows, fitting heating, ventilation and air conditioning, insulating pipework and electrical wiring, metal-framed joinery, filling pipe runs and voids between internal and external walls and partitions, voids below bathtubs and in ceilings, among others.

Instructions for use

Optimal application temperature: +5°C to +30°C (acceptable application temperatures: -10°C to +35°C).

Surface preparation:

Thoroughly clean the surface, removing all traces of dust or grease. Slightly dampen with water by spray or brush, 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.

Product application:

Shake container at least 20 times before use.

Manual application with tube:

- Holding the canister in an upright position, screw the application tube on and apply product in dots or beads over one of the surfaces to be bonded.

Gun application:

- Screw the trigger in place, ensuring it is fully closed and upright. Ensure it is fully screwed on.
- Open the trigger and apply in dots or beads over one of the mating surfaces.

For filling, apply to only 30% of the hole or cavity. The volume of the product expands by a factor of 3.

Dissolving and cleaning

To remove excess freshly-applied foam, use ESPUMAX Cleaner 500 ml (Ref. 504804) for polyurethane foams. Do not use water. Use mechanical means for removing foam once set.

Storage

Shelf life: 12 months
Store between 10°C and 25°C in its original container and protected from sunlight and moisture.
Always store in an upright position.

Safety precautions

For more information, see product safety data sheet (MSDS).

The user shall take ultimate responsibility for determining the final suitability of the product in all types of application.



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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.