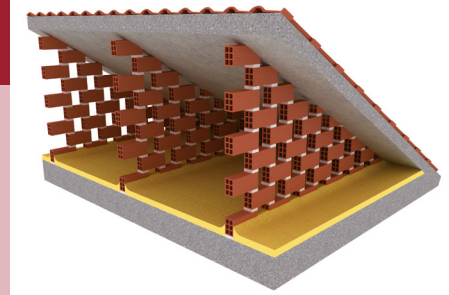


Poliuretano® Spray S-383-TL and S-383HFO



DESCRIPTION

Source: ATEPA



Poliuretano® Spray are polyurethane systems made up of two components: polyol and isocyanate, to obtain a rigid closed-cell foam applied in spray form “in situ” to obtain excellent thermal insulation.

Poliuretano® SprayS-383-TL features authorised ecological foaming agents (HFCs) that are not harmful to the O-zone layer.

Poliuretano Spray S-383-HFO has been developed using the 4th generation of foaming agents (HFO), meaning its contribution to global warming is very low and it is not harmful to the O-zone layer. The use of this foaming agent fulfils the requirements of Regulation (EU) 517/2014 on fluorinated greenhouse gases.

BENEFITS

- ✓ Complete suppression of thermal bridges. The insulation has no joints or gaps. It is a **continuous form of insulation**.
- ✓ **Strong surface adhesion**. No need to use adhesives or glues to install the product.
- ✓ **Insulate and waterproof in a single process**. This capacity can be attributed, on the one hand, to its closed-cell and watertight structure and, on the other, the continuous way in which it is applied, avoiding joints.
- ✓ It can be moved to a construction site quickly, with no need for transporting or storing bulky products.
- ✓ Seals gaps, muffling the passage of sound, including spots that are difficult to reach.
- ✓ Increase in the habitable space compared to other insulating materials.
- ✓ Low COV emissions fulfilling all current requirements, with an A+ rating under French regulations

APPLICATIONS

	S-383TL/ S-383-HFO
Façades	✓
Roofs	✓
Walls	✓
Ceilings	✓
Floors	✓

For further information, request the Technical Specifications and the Declaration of Performance

CERTIFICATIONS

The Poliuretán Spray S-383-TL system boasts several European certifications that demonstrate its quality:

- MARCAN(Aenor). Contract 020/000186
- KEYMARK (CEN/CENELEC). Contract 020/000002
- SOCOTEC. Dossier 601R0GAD6445
- EPBD Databank. Registered in March 2014

Poliuretán® Spray systems are applied by means of a high-pressure jet, equipped with heating functions, with a mix ratio of 1:1 in volume.

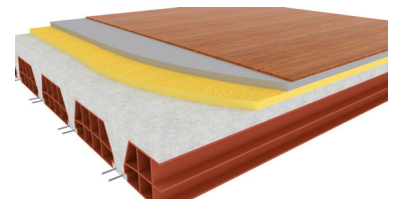
It is mainly employed as a thermal insulation for floors and can be applied in layers of up to 50 mm in one go.

Floor insulation

Poliuretán® Spray systems feature a high dimensional stability at the top end of the scale, DS(TH)4 and are specially recommended for use as floor insulation, including in areas in which underfloor heating is installed.

A wide range of tests have demonstrated the high performance of the Poliuretán Spray S-383-TL system for use on floors; its performance is excellent in terms of creep in compression and refractoriness under load and temperature that safeguard its constant thickness in permanent loads throughout its useful life.

The system fulfils the requirements of thermal insulation for floors, such as the maximum deflection permitted after subjecting the foam to fatigue of 15000 cycles of 2 to 6 KPa pursuant to NIT 189 § 8.2.3 in Belgium or the maximum deflection permitted by DTU 52.10 in France, obtaining a SC1a₃Ch rating for underfloor heating.



Insulation on the outer frame

On this type of sloping roof, the insulation is installed on the outer horizontal frame, between the partitions that comprise the slope of the roof's skirts.

There are a wide range of benefits offered by spraying polyurethane on the outer frame. They can be consulted in the **Synthesia Internacional Catalogue of Applications**.

FEATURES

Characteristics	S-383-TL	S-383-HFO
Applied density	40-50 kg/m ³	
Closed cells	≥ 90%	
Fire performance	Euroclass E	
Water permeability Short-term water absorption (Wp) by partial immersion	≤ 0'20 kg/m ²	
Resistance factor to water vapour (μ)	≥ 80	
Compression resistance	≥ 200 kPa	
Deformation; 40 KPa; 70 °C, 7 days	≤ 5% (DLT(2)5)	
Dimensional Stability 70 °C; 90% HR	DS(TH)4	
Surface adhesion	≥ 100 kPa (A3)	
Aged thermal conductivity (Lambda declared)	d _N < 80 mm: 0,028 W/mk 80 ≤ d _N < 120 mm: 0,027 W/mK d _N ≥ 120 mm: 0,026 W/mK	d _N < 80 mm: 0,028 W/mk 80 ≤ d _N < 120 mm: 0,026 W/mK d _N ≥ 120 mm: 0,025 W/mK