





stability of parameters





high efficiency



low layer weight



excellent adhesion

Polyurethane foam systems

PUREX NG systems

The PUREX NG polyurethane foam spray technology covers the most important aspects of insulation (e.g. thermal conductivity coefficient, reaction to fire, low coating weight, efficiency etc.). These features enable a wide range of foam applications in various types of construction: single- and multi-family, industrial, commercial and public buildings.

Key features of foams

- Excellent adhesion to various materials (such as sheet metal, wood, concrete, etc.) used in both the old and new construction sector.
- Low thermal conductivity coefficient and significant heating cost reduction.
- Fast and easy spray application of insulation. Subsequent layers can be applied at intervals of a few minutes.
- Very good application features: insulation in hardto-reach areas - no joints or connections creating the so-called "thermal bridges".
- Low weight of the polyurethane insulation layer due to the low structural load, it is used to renovate historic buildings.
- Durability and stability of the spray insulation layer. Declaration of constancy of physical and thermal parameters of the coating for 25 years.
- Low environmental impact both during the production of components and during foam application and its subsequent use. It is produced using an HFO blowing agent with zero ozone depletion potential (ODP=0) and a very low global warming potential (GWP) value.
- Open-cell foams belong to a group of sound-absorbing products.
- Closed-cell foams have minimal water absorption.

Polyurethane spray foam systems

properties declared in accordance with EN 14315-1

OPEN-CELL FOAM			Foam general characteristics	CLOSED-CELL FOAM	
Light, semi-rigid foam used for thermal and acoustic insulation indoors. It is recommended to create a barrier with gypsum plasterboard (B-s1, d0) to improve fire properties.				Rigid foam for indoor and outdoor applications. Used to insulate surfaces particularly exposed to mechanical impact.	
0810NF	0808NF B2	0407NF B2 ELITE	PUREX NG	0428NS	0440NS
Single-family housing (walls, ceilings, floors, attics, lofts).	Single- and multi- family housing and public buildings (walls, ceilings, floors, attics, lofts).	Single- and multi- family housing (attics, lofts, walls, ceilings, floors). Premises with a high-end finish.	Areas of application	Industrial construction, storage and livestock facilities, cold storage for food and other products. Suitable for insulating and sealing surfaces of ceilings.	Thermal insulation for flat roofs, foundations as well as floors and ceilings. External fire performance of the roof in accordance with EN 13501-5: Broof (t1).
Flagship product. Countless successful projects are a testament to the system's reliability. "Sound-absorbing" product according to VDI 3755/2000. Resistance to mould growth confirmed by a Building Research Institute test.	The first Polish open- cell foam with Class E flammability. Suitable for multi-family housing. Resistance to mould growth confirmed by a Building Research Institute test.	Foam with very low water absorption and low VOC content, based on natural raw materials.	Foam characteristic features	Good balance between efficiency and mechanical strength. Excellent dimensional stability of the finished product. Fast response and drying time.	The density in the product provides good resistance to mechanical impact. The foam has received a BUREAU VERITAS type approval certificate.
40-42	40-42	40-42	Output per one 470 kg set [m³]	10-11	7,5
7-10	7-10	7-8	Product density [kg/m³]	34-37	55-65
-	-	-	Compressive strength [kPa]	min. 150	min. 300
14-22	6-12	≤0,26	Water absorption [kg/m²]	≤0,14	≤0,15
0,037	0,034	0,037	Average initial thermal conductivity coefficient [W/m*K]	0,0215	0,0215
class F	class E	class E	Reaction to fire classification according to EN 13501-1	class E	class E

For their highest quality all products are created with care

effective insulation stability insulation of parameters tightness

low lave efficiency weight

high

excellent adhesion



Energy loss pattern in construction

roof

12%

walls

windows and doors 11%

Domestic hot water systems 24%

Measurements for a single-family house measuring 128.4 m², located in the Wielkopolskie Voivodeship, using 18 cm thick insulation everywhere (roof, ceiling, wall, floor), with the same thermal conductivity coefficient [W/m*K].

> floor 6%

Insulation layer thickness While maintaining the same thermal resistance

PU foam closed-cell	25 mm
Styrofoam	40 mm
	45 mm
Mineral wool	
A HILL	
all and the	140 mm
Wood	

We are authors of first Polish open-cell foam!



