Polyurethane spray insulation

pcc Prodex

Thermal, acoustic and hydro insulation

What makes our product unique?

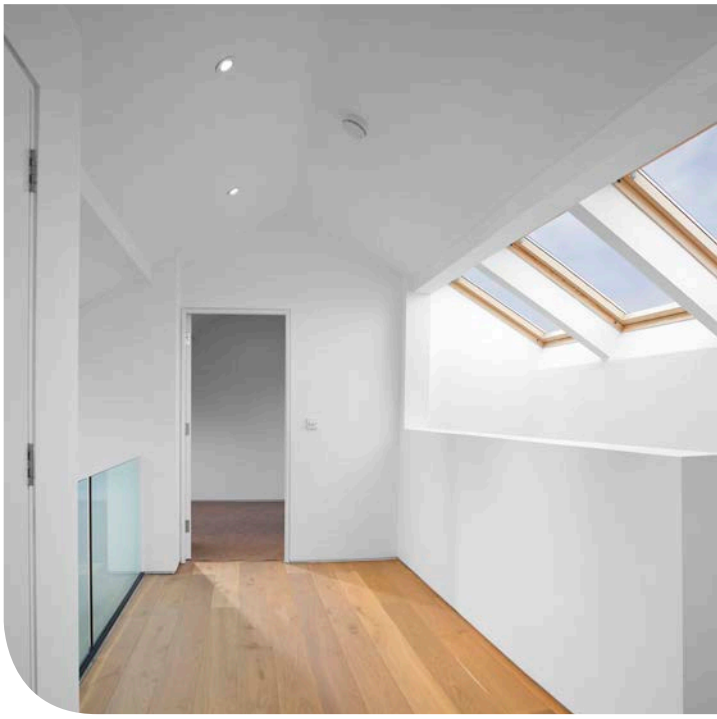
Modern polyurethane (PU) spray foam systems are highly efficient, fast to complete and versatile in terms of application techniques. For PU spray foam systems special high-pressure units are being utilized in order to ensure that components are mixed thoroughly what in the end guarantees an accurate and efficient performance of insulation works.

The essential feature of PU spray foam systems is the product application technique on the insulated surfaces. The possibility of spraying the PU foam directly significantly reduces the time of carrying out the insulation work and improves its effectiveness and aesthetics. The polyurethane spray foam is designed for the purposes of jointless thermal, acoustic and hydro insulation.

Applications

• **construction sector**
external and internal insulation of roofs, walls and floors in both newly-built and existing buildings (renovation and thermal insulation); reinforcement of building surfaces with insulation providing enhanced mechanical strength

• **industry**
insulation for such industrial facilities as warehouses, production halls and logistics centres; insulation for tanks and pipelines



• **agriculture**
insulation and thermal insulation for warehouses, fruit and vegetable stores and farm buildings such pig farms, stables, cow sheds and hen houses

• **public utility buildings**
hotels, hospitals, schools, sports halls, offices, etc.

Advantages of polyurethane spray foam insulations

- fast and easy application regardless of the degree of surface complexity
- one of the lowest thermal conductivity levels ($\lambda \leq 0.021$ W/m•K) Foam
- jointless insulation means that there are no thermal bridges responsible for heat losses
- excellent sealing parameters
- very good adhesion to the substrate
- extraordinary lightness and resistance of the material
- highly stable parameters
- high efficiency (e.g. flat roof – even up to 1.000 sq. m a day) reduces the demand for labour and the involvement of facility users
- resistance to mould and fungi

Products

Closed-cell PU spray foam:

- **FLOOR Foam**

internal thermal and hydro insulation for floors, foundations and floorings, with the yield of 0.5 kg per 1 sq. m of insulated surface, providing a 1 cm thick layer

- **WALL Foam**

internal wall insulation, with the yield of 0.38 kg per 1 sq. m of insulated surface, providing a 1 cm thick layer

- **ATTIC Hard Foam**

internal and external insulation for floors and ceilings, with the yield of 0.38 kg per 1 sq. m of insulated surface, providing a 1 cm thick layer

- **ROOF Foam**

external roof insulation providing enhanced strength, with the yield of 0.5 kg per 1 sq. m of insulated surface, providing a 1 cm thick layer

Open-cell PU spray foam:

- **ATTIC Soft Foam**

lightweight internal insulation of attics, with the yield of 0.1 kg per 1 sq. m of insulated surface, providing a 1 cm thick layer

Advantages

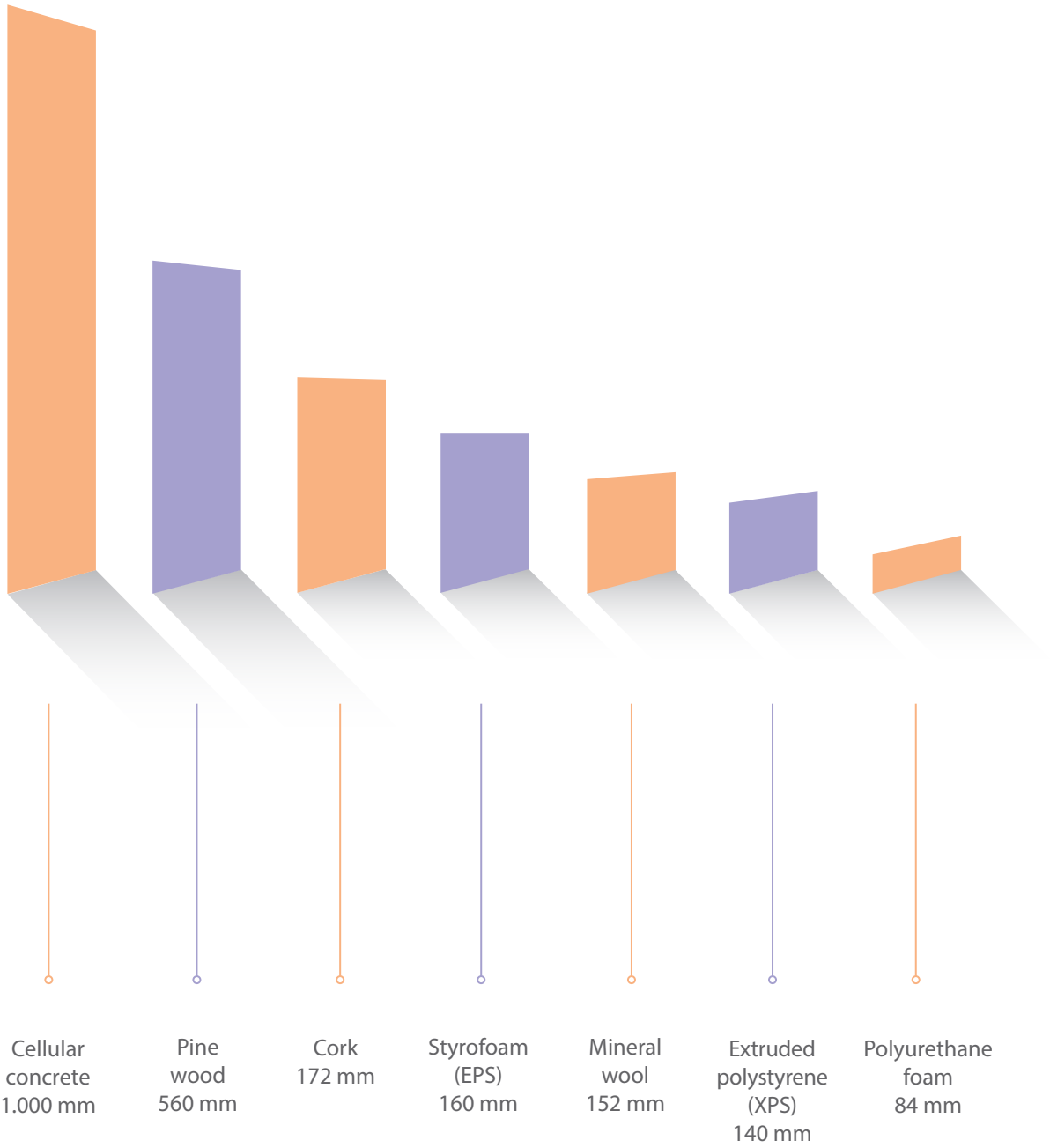
• time and money savings to the quick installation (even one day)

• definite reduction in costs of heating (in winter) and cooling (in summer), owing to a good tightness and, thus, a high efficiency of building insulation

• durability of insulation under different weather conditions (temperature, wind, precipitation)

• material's versatility – one production stage delivers thermal and hydro insulation and the structure is mechanically strengthened without a significant load increase

Thickness of an insulation layer at the heat transfer coefficient of U≈0.2-0.3 W/(m²K) depending on the material



Official representative:

PCC Prodex Ltd.
4, H. Sienkiewicza Str.
56-120 Brzeg Dolny, Poland
+48 71 794 34 10
prodex@pcc.eu
www.pcc-prodex.eu