Technical Data Sheet

# NEXLER PREMIUM PYE PV250 S48

## Heat weldable under layer bitumen membrane

### Technical data:

**Reinforcement:** non-woven polyester
**Top finishing:** fine grained
**Asphalt kind and cold flexibility:** SBS-modified, -25 °C
**Visible defects**: lack of visible defects
**Length:** ≥ 5,0 m
**Width:** ≥ 0,99 m
**Straightforwardness:** ≤ 10 mm per 5 m of roll length
**Quantity on pallet:** 24 rolls (120 $m^2$)
**Thickness:** 4,8 ± 0,2 mm
**Flow resistance in high temperature:** 100$^0$C
**Resistance to external fire exposure**: NPD
**Reaction to fire:** class E
**Watertightness**: waterproof at a pressure: 2 kPa (method. A), 10 kPa (method A), 60 kPa (method. B), 400 kPa (method. B)
**Tensile properties during stretching:**
longitudinal: 1200 ± 200 N/50mm
elongation: (50 ± 15) %
transversal: 900 ± 200 N/50mm
elongation: (50 ± 15) %
**Resistance to static loading**:
≥ 15 kg (met. A),
≥ 20 kg (met. B)
**Resistance to impact**: ≥ 1500 mm (met. A)
**Resistance to tearing:**
Longitudinal: 350 ± 100 N
Transversal: 350 ±100 N
**The shear strength of the joint:**
Longitudinal joint: 900 ± 200 N/50 mm
Transversal joint: 1100 ± 200 N/50 mm
**Durability after artificial aging and after exposure to chemicals**:

- waterproof after artificial ageing at a pressure of 2 kPa (met. A):
- water vapor diffusion resistance after artificial ageing 7,5 E+11 ± 50% $\frac{m^2 \times s \times Pa}{kg}$
- chemical resistance (acc. to annex A of the standard)

**Flexibility at low temperature**: ≤ -25˚C
**Permeation of water vapor:** 4,7 x $10^{11}$ ± 25% ($m^2$ x s x Pa)/kg
**Dimensional stability:** ≤ 1%
**Dangerous substances:** Look: MSDS. It does not contain asbestos or components of coal tar.
**Compliance with the standard**:
EN 13707:2004+A2:2009
EN 13969:2004, EN 13969:2004/A1:2006
EN 13970:2004, EN 13970:2004/A1:2006

### Application:

NEXLER PREMIUM PYE PV250 S48 membrane is intended for waterproofing as an under layer in multilayer roof coverings including roofing intended under heavy protection of surface, it is particularly recommended for roofs with long lifespan requirement. NEXLER PREMIUM PYE PV250 S48 membrane is also recommended for performing the damp-proof or waterproof insulation of underground elements (type A and T), insulation of balconies, multilayer insulation of terraces and as a vapor control layer. Permissible roof slope inclination from 1%.

### Conditions of application:

Insulation with NEXLER PREMIUM PYE PV250 S48 membrane should be made in accordance with the basic design, in compliance with the applicable construction regulations and as per the detailed insulation design and delivery guidelines for NEXLER Insulation Systems and the technical specifications of the product.

### Method of application:

NEXLER PREMIUM PYE PV250 S48 membrane should be fixed by welding to the previously primed concrete substrate or galvanized steel sheet base or to the previously fastened underlayer bitumen membrane. The membrane can be also fixed to the thermal insulation sandwich panels. The substrate must be mechanically resistant, and free from any loose dirt, greasy stains or water.

Before the torching-on NEXLER PREMIUM PYE PV250 S48 membrane it is recommended to prime the concrete substrate with solvent-based bitumen primers NEXLER Penetrator G7 or water-based bitumen products for example NEXLER BITFLEX Primer.

When both sides of the membrane are heated with a torch-on, a protective thin plastic film melts, asphalt begins to melt and the membrane adheres to the substrate.
NEXLER PREMIUM PYE PV250 S48 membrane could be also mechanically fixed together with thermal insulation layer or without this layer, to concrete, wooden or steel sheet



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**Method of application, cont.:**

substrates. In this case, the membrane is installed with mechanical fasteners on the side of the felt strip, and then heat-bonded on the overlaps. To fasten mechanically underlayer membrane and thermal insulation boards to the substrate, it is recommended to put the membrane in an inverted position, which means the underside covered with micro-foil upside, which makes it easier to adhere to top layer membrane. Membrane overlaps must be min. 8 cm wide along the membrane strand and min. 12 cm wide at the junction perpendicular to the length of membrane strand. The membrane may be applied at the ambient temperatures above 0°C. This requirement applies to the time of day and night. At lower temperature of the environment NEXLER PREMIUM PYE PV250 S48 membrane should be stored before use for 24 hours at temperatures no lower than 18°C. Substrate preparation and membrane installation should be performed in accordance with the principles described in Nexler Insulation Systems.

**Warranty:**

The manufacturer IZOHAN Sp. z o.o. provides the direct buyer of NEXLER PREMIUM PYE PV250 S48 membrane with:

- a special 22-year material warranty if the IZOHAN Sp z o.o. primer is primers are used

or

- a standard 16-year material warranty in case of two-layer covering

Exercising the rights under this warranty is subject to using the membrane in compliance with the applicable construction regulations and the technical specification of the product, and as per the intended use of the product and the possible solutions specified in the NEXLER Insulation Systems documentation.

**Transportation and storage:**

The rolls of NEXLER PREMIUM PYE PV250 S48 membrane are protected against the unroll by adhesive tapes. Each roll carries factory-applied labels containing the required information. The rolls are placed vertically on industrial wooden pallets and protected with a plastic wrap.

During transportation and storage, the rolls must be protected from moisture and exposure to sunlight, and be placed upright in one layer in a way preventing any dislocation or damage. The membrane rolls must be stored on a flat surface at a distance of at least 120 cm from radiators.

Transportation must be carried out in compliance with applicable shipment safety regulations.

**Name and number of the notified certification body:**

The Polish Centre for Testing and Certification (Polskie Centrum Badań i Certyfikacji S.A.) notified body no. 1434

Note:
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