Technical Data Sheet

NEXLER PREMIUM PYE PV200 S40

Heat weldable underlayer bituminous felt

Technical data:

Reinforcement: non-woven polyester reinforced with glass fibers
Top finishing: fine grained
Asphalt kind and cold flexibility: SBS-modified, -25 °C
Visible defects: lack of visible defects
Length: ≥ 7,5 m
Width: ≥ 0,99 m
Straightforwardness: ≤ 15 mm per 7,5 m of roll length
Quantity on pallet: 20 rolls (150 m^2)
Thickness: (4,0 ± 0,2) mm
Weight: appx. 5,1 kg/m^2
Flow resistance in high temperature: 100 ^{0}C
Resistance to external fire exposure: $B_{roof}(t_1)$
*this applies to the examined layer systems
Reaction to fire: class E
Watertightness: waterproof at a pressure: 2 kPa (meth. A), 10 kPa (meth. A), 60 kPa (met. A), 250 kPa (meth. B)
Tensile properties during stretching:
longitudinal: 900 ± 300 N/50mm
elongation: (50 ± 15) %
transversal: 700 ± 350 N/50mm
elongation: (50 ± 15) %
Resistance to static loading: ≥ 15 kg (met. B)
Resistance to impact: ≥ 800 mm (met. A)
Resistance to tearing:
longitudinal: 350 ± 150 N
transversal: 350 ±150 N
The shear strength of the joint:
longitudinal joint: 650 ± 300 N/50 mm
transversal joint: 850 ± 300 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) (according to annex A of the standard)

Flexibility at low temperature: ≤ -25 ˚C
Permeation of water vapour: 7,5 E+11 ± 25% $\frac{m^2 \times s \times Pa}{kg}$
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 PV200 S40 felt 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 PV200 S40 felt 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 PV200 S40 felt 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 PV200 S40 bituminous felt should be fixed by welding to the primed concrete substrate or galvanized steel sheet base or to the previously fastened underlayer bituminous felt. The felt 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 PV200 S40 felt it is recommended to prime concrete substrate with solvent-based bitumen primers NEXLER Penetrator G7 or water-based bitumen products for example NEXLER BITFLEX Primer.

NEXLER PREMIUM PYE PV200 S40 felt could be also mechanically fixed together with thermal insulation layer, to concrete, wooden, steel sheets base. In this case, the felt is installed with mechanical fasteners on the side of the felt strip, and then heat-bonded on the overlaps. To fasten mechanically underlayer felt and thermal insulation boards to the substrate, it is recommended to put the felt in an inverted position, which means the underside covered with microfolia upside, which makes it easier to adhere to top layer felt. Felt overlaps must be min. 8 cm wide along the felt strand and min. 12 cm wide at the junction perpendicular to the length of felt strand.

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Method of application, cont.:

The felt 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 PV200 S40 should be stored before use for 24 hours at temperatures no lower than +18 °C.

Substrate preparation and felt installation should be performed in accordance with the principles described in Nexler Insulation Systems.

Warranty:

The manufacturer NEXLER Sp. z o.o. provides the direct buyer of NEXLER PREMIUM PYE PV200 S40 felt with:

- a special 18-year material warranty in case of 2-ply covering on concrete substrate primered with the NEXLER Sp z o.o. primers

or

- a standard 16-year material warranty

Exercising the rights under this warranty is subject to using the felt 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 PV200 S40 felt 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 felt rolls must be stored on a flat surface and 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

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