



Technical Data Sheet

NEXLER PREMIUM PYE PV180 S40

Heat weldable underlayer bituminous felt

Technical data:**Reinforcement:** non-woven polyester**Top finishing:** fine grained**Asphalt kind and cold flexibility:** SBS-modified, -15°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 m²)**Thickness:** 4,0 ± 0,2 mm**Weight:** appx. 5,2 kg/m²**Flow resistance in high temperature:** ≥ 95 °C**Resistance to external fire exposure:** B_{roof}(t₁)

*this applies to the examined layer systems

Reaction to fire: class E**Watertightness:** waterproof at a pressure of:

10 kPa (met. A), 60 kPa (met. B), 250 kPa (met. B)

Tensile properties during stretching:

longitudinal: 850 ± 150 N/50 mm

elongation: (50 ± 15) %

transversal: 550 ± 150 N/50 mm

elongation: (50 ± 15) %

Resistance to static loading: ≥ 15 kg (met. B)**Resistance to impact:** ≥ 1250 mm (met. A)**Resistance to tearing (with nail):**

longitudinal: 300 ± 150 N

transversal: 300 ± 150 N

The shear strength of the joint:

longitudinal joint: 650 ± 250 N/50mm

transversal joint: 950 ± 250 N/50mm

Durability:

waterproof at a pressure of 60 kPa:

- after artificial aging

- after exposure to chemicals:

(according to annex A of the standard)

Flexibility at low temperature: ≤ -15°C**Compliance with the standard:**

EN 13707:2004+A2:2009

EN 13969:2004, EN 13969:2004/A1:2006

Application:

The NEXLER PREMIUM PYE PV180 S40 bituminous felt is intended for waterproofing as an under layer in multilayer roof covering, including covering with permanent heavy surface protection. Product is particularly recommended for roofs with long lifespan requirement. The NEXLER PREMIUM PYE PV180 S40 bituminous felt is also recommended for performing the damp-proof or waterproof insulation of underground parts of building (type A and T) and as a vapor control layer. Permissible roof slope inclination from 1%.

Conditions of application:

Insulation with NEXLER PREMIUM PYE PV180 S40 bituminous 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 PV180 S40 bituminous felt should be fixed by welding to the primed concrete substrate or galvanized steel sheet base or to the previously fastened underlayer bitumen bituminous felt. The bituminous 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 PV180 S40 bituminous felt 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 bituminous felt are heated with a torch-on, a protective thin plastic film melts, asphalt begins to melt and the bituminous felt adheres to the substrate. NEXLER PREMIUM PYE PV180 S40 bituminous felt could be also mechanically fixed together with thermal insulation layer or without this layer to concrete, wooden or steel sheet substrates. In this case, the bituminous felt is installed with mechanical fasteners on the side of the felt strip, and then heat-bonded on the overlaps. To fasten mechanically

Method of application, cont.:

underlayer bituminous felt and thermal insulation boards to the substrate, it is recommended to put the bituminous felt in an inverted position, which means the underside covered with microfolia upside, which makes it easier to adhere to top layer bituminous felt. The bituminous felt can be attached to the primed substrate by welding the entire surface of its top or bottom side with a torch-on. The top side of the bituminous felt with fine grained granules, is adapted to using asphalt glues applied in cold or in hot state in order to glue thermal insulation boards. Bituminous felt overlaps must be min. 8 cm wide along the bituminous felt strand and min. 12 cm wide at the junction perpendicular to the length of bituminous felt strand. The bituminous felt can 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 PV180 S40 should be stored before use for 24 hours at temperatures no lower than +18°C.

Substrate preparation and bituminous felt installation should be carried out 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 PV180 S40 bituminous felt with:

- a special 15-year material warranty and if the NEXLER sp z o.o. primer is primers are used
- or
- a standard 10-year material warranty.

Exercising the rights under this warranty is subject to using the bituminous 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 PV180 S40 bituminous 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 bituminous felt 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

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