Technical Data Sheet

NEXLER PREMIUM PYE G200 S40

Heat weldable underlayer bitumen membrane

Technical data:

Reinforcement: glass fabric
Top finishing: fine grained
Asphalt kind and cold flexibility: SBS-modified, -20 ˚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: 30 rolls (150 m^2)
Thickness: 4,0 ± 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 of:
2 kPa (met.A), 10 kPa (met. A),
60 kPa (met. B), 200 kPa (met. B)
Tensile properties during stretching:
longitudinal: 1500 ± 500 N/50 mm
elongation: (12 ± 7) %
transversal: 2900 ± 900 N/50 mm
elongation: (12 ± 7) %
Resistance to static loading: ≥ 5 kg (met. A and B)
Resistance to impact: ≥ 1750 mm (met. A)
Resistance to tearing (with nail):
longitudinal: 600 ± 300 N
transversal: 400 ±200 N
The shear strength of the joint:
longitudinal joint:1800 ± 700 N/50 mm
transversal joint:1500 ± 500 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: ≤ -20 ˚C
Permeation of water vapor: 2,8 x 10^{12} ± 25% $\frac{m^2 \times s \times Pa}{kg}$
Radon permeability: k= 1,7x10^{-13} m^2/s
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:

The NEXLER PREMIUM PYE G200 S40 membrane is intended for making a waterproofing insulation as a base layer in multi-layer roof coverings including roof coverings for heavy surface protection and for roofs with a required roofing lifetime of several decades. The membrane is especially recommended for mechanical fixing.

The NEXLER PREMIUM PYE G200 S40 is also recommended for performing the damp-proof and waterproof insulation of underground parts of building (type A and T), for insulation of balconies, multilayer insulation of terraces, and as a vapor control layer. Permissible roof slope inclination from 1%.

Conditions of application:

Insulation with the NEXLER PREMIUM PYE G200 S40 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:

The NEXLER PREMIUM PYE G200 S40 should be fixed by welding to the previously primed concrete or galvanized steel sheet base, to the previously fixed underlay heat-weldable bitumen membrane. The membrane can be also fixed to thermal insulation EPS boards. The substrate must be mechanically resistant, and free from any loose dirt, greasy stains or water.

Before the torching-on the NEXLER PREMIUM PYE G200 S40, it is recommended to prime the concrete substrate with solvent-based bitumen primers for example NEXLER Penetrator G7, or water-based bitumen products NEXER 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. The NEXLER PREMIUM PYE G200 S40 membrane could be also mechanically fixed together with thermal insulation layer to concrete, wooden or steel sheets base. In this case, the membrane is

Producent: IZOHAN sp. z o.o., 81-963 Gdynia, ul. Łużycka 2, tel./fax: +48 58 781 45 85, www.izohan.eu
Sąd Rej. Gdańsk-Północ w Gdańsku, VIII Wydz. Gosp., KRS 0000063616 Kapitał zakładowy 7.772.500,00 PLN, Regon 191528483, NIP 586-20-73-821 nr rej. BDO: 000009205
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Method of application, cont.:

installed with mechanical fasteners on the side of the strand, 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 approximately 8 cm wide along the membrane strand and about 10 cm wide at the junction perpendicular to the length of membrane strand.

Membrane should be applied at temperatures above 0°C. This requirement applies to the time of day and night. At lower temperature of the environment NEXLER PREMIUM PYE G200 S40 should be stored before use for 24 hours at temperatures no lower than +18°C.

More details on substrate preparation and soft-heating of the membrane are provided in the IZOLMAT Insulation Systems documentation, in THE PRINCIPLES OF INSULATION WORKS part.

Warranty:

The manufacturer IZOHAN Sp. z o.o. provides the direct buyer of the NEXLER PREMIUM PYE G200 S40 membrane with:

- a special 18-year material warranty if IZOHAN Sp. z o.o. primers are used

or

- a standard 13-year material warranty.

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 G200 S40 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 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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