



Technical Data Sheet

NEXLER Alu Aquastoper SP

Vapor barrier underlayer bitumen membrane

Technical data:

Reinforcement: glass veil and aluminum foil

Top coating:

PE foil (classic version)

PE foil or fine grained granules (self-adhesive version)

Asphalt kind and cold flexibility: SBS-modified, -20 °C

Visible defects: lack of visible defects

Length: ≥ 20,0 m

Width: ≥ 1,00 m

Straightforwardness: ≤ 20 mm per 10 m of roll length

Quantity on pallet: 20 rolls (400 m²)

Thickness: (1,5 ± 0,2) mm

Reaction to fire: class E

Watertightness: waterproof at a pressure: 2 kPa (met.A), 60 kPa (met. B)

Tensile properties during stretching: maximum tensile force:

longitudinal: 500 ± 200 N/50 mm

transversal: 300 ± 150 N/50 mm

Tensile properties during stretching: elongation

longitudinal: (4 ± 2) %

transversal: (4 ± 2) %

Resistance to impact: ≥ 300 mm (met. A)

The shear strength of the joint:

longitudinal joint: 300 ± 150 N/50 mm

transversal joint: 500 ± 200 N/50 mm

Flexibility at low temperature: ≤ -20 °C

Resistance to tearing:

longitudinal: 150 ± 100 N

transversal: 150 ± 100 N

Durability after artificial aging and after exposure to chemicals:

- waterproof at a pressure of 2 kPa,
- change of water vapor diffusion resistance not greater than ± 50 %

(according to annex A of the standard)

Permeation of water vapor: $2,0 \times 10^{-12} \pm 25\% \frac{m^2 \times s \times Pa}{kg}$

Dangerous substances: Look: MSDS. It does not contain asbestos or components of coal tar.

Radon permeability: $k=4,3 \times 10^{-2} m^2/s$

Compliance with the standard:

EN 14967:2006

EN 13970:2004, EN 13970:2004/A1:2006

Application:

The NEXLER Alu Aquastoper SP membrane is intended for performing vapor barrier on the roofs and terraces under the layer of thermal insulation. Membrane is also used for performing horizontal damp-proof insulation and creating of radon barrier on underground parts of the building, under the floors in premises like garages, basements, halls and industrial warehouses. NEXLER Alu Aquastoper SP membrane has very high diffusion resistance rate for the transition of carcinogenic radon, so it is the best material which protects the health of building users.

Conditions of application:

Insulation with the NEXLER Alu Aquastoper SP 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, following the manufacturer's instructions.

Method of application:

NEXLER Alu Aquastoper SP membrane occurs in two versions: classic and self-adhesive. In self-adhesive version the upper side of the membrane may be covered with PE foil or fine grained mineral granules.

Installation of the classic version with PE foil on both sides:

The NEXLER Alu Aquastoper SP membrane in the classic version should be put on a clean and level concrete substrate, loosely without fixing to the substrate. To connect each strip of the membrane to the next membrane strand, self-adhesive strip should be used. The membrane can also be loosely installed on a trapezoidal steel sheet substrate, provided that the thermal insulation layers are installed at the same time, to protect the membrane from damage while walking on the roof.

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Method of application, cont.:

Longitudinal overlaps should be joined using a self-adhesive strip and transversal overlaps should be joined by welding with a low power burner.

At lower temperature of the environment NEXLER Alu Aquastoper SP should be stored before use for 24 hours at temperatures no lower than +18°C.

Application of NEXLER Alu Aquastoper SP membrane as vapor barrier on the roof, requires mechanical fixing next layers of roofing to the substrate, together with the thermal insulation layer and underlayer membrane layer.

Application of NEXLER Alu Aquastoper SP as horizontal insulation on floors in basements, halls, industrial warehouses or garages does not require mechanical fixing to the substrate. Next layers, ie. thermal insulation layer, construction foil and concrete floor or construction foil and a concrete floor are the pressure layers.

Installation of the self-adhesive version:

The NEXLER Alu Aquastoper SP membrane in the self-adhesive version should be fixed by adhering, using its self-adhesive properties, to primed concrete or steel sheet substrates. The surface, where the membrane will be glued, must be dry. The roll should be unfolded and placed in the intended application place, and then the foil from the underside should be removed. The entire surface of the membrane should be pressed carefully to the substrate, especially on overlaps at least 9 cm wide along the membrane strand and at least 12 cm crosswise. Membrane should be applied at temperatures above +10°C, to enable proper adhesion. This requirement applies to the time of day and night. At lower temperature of the environment the NEXLER Alu Aquastoper SP membrane should be stored before use for 24 hours at temperatures no lower than +18°C.

Application of NEXLER Alu Aquastoper SP membrane in the self-adhesive version with top side covered with fine grained granules, as a vapor barrier on the roof, allows to use the adhesive method to connect the next layers of roofing.

Before the adhering NEXLER Alu Aquastoper SP membrane in the self-adhesive version it is recommended to prime the concrete substrate on terraces and roofs with solvent-based bitumen primers IZOHAN Penetrator G7, IZOHAN Br/SBS Br, IZOBIT BR. On the floors of the premises water-based bitumen products NEXLER BITFLEX PRIMER, IZOHAN WA, IZOHAN DYSPERBIT, DYSPERBIT GRUNT should be used.

Warranty:

The manufacturer IZOHAN Sp. z o.o. provides the direct buyer of the NEXLER Alu Aquastoper SP membrane with a standard 15-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 Alu Aquastoper SP 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. and at a distance of at least 120 cm from radiators.

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

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