



Technical Data Sheet

IZOLMAT PLAN monomax®

Heat weldable single layer bitumen membrane

Technical data:

Reinforcement: non-woven polyester reinforced with glass fibers

Top finishing: mineral granulate (slate)

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

Visible defects: lack of visible defects

Length: ≥ 8,0 m

Width: ≥ 0,99 m

Straightforwardness: ≤ 16 mm per 5 m of roll length

Quantity on pallet: 18 rolls (144 m²)

Grammage: 5,5 kg/m² ± 10%

Dimensional stability: ≤ 0,3%

Resistance to external fire exposure: B_{roof}(t₁), B_{roof}(t₂)

Reaction to fire: class E

Watertightness: waterproof at a pressure of 10 kPa (met. A)

Tensile properties during stretching:

longitudinal: 1200 ± 300 N/50mm

elongation: (50 ± 15) %

transversal: 850 ± 250 N/50mm

elongation: (50 ± 15) %

Resistance to static loading: ≥ 20 kg (met. A)

Resistance to impact:

≥ 1250 mm (met. A)

Resistance to tearing:

longitudinal: 350 ± 150 N

transversal: 350 ± 150 N

The tear off strength of the joint:

longitudinal: 150 ± 100 N/50 mm

transversal: 150 ± 100 N/50 mm

The shear strength of the joint:

longitudinal joint: 950 ± 250 N/50mm

transversal joint: 1000 ± 200 N/50mm

Durability: flow resistance in high temperature: (100 ± 10)°C

Flexibility at low temperature: ≤ -20°C

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

Compliance with the standard:

EN 13707:2004+A2:2009

Application:

The IZOLMAT PLAN monomax® membrane is intended for single-layer waterproofing in roof coverings. The membrane can be heat-welded directly to the primed concrete substrate or mechanically fixed to the substrate together with thermal insulation layer and then heat-welded on longitudinal and transverse overlaps. IZOLMAT PLAN monomax® has special additives in asphalt mass inhibiting the spread of fire in the event of external fire.

Due to the special additives in the asphalt mass, IZOLMAT PLAN monomax is especially recommended for roofs on which we want to make ignition difficult and to inhibit the spread of fire in the event of external fire. Permissible roof slope inclination from 3%.

Conditions of application:

Insulation with the IZOLMAT PLAN monomax® top layer 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 IZOLMAT insulation systems and the technical specifications of the product.

Method of application:

The IZOLMAT PLAN monomax® should be fixed by welding or mechanical fastening and welding in accordance with the project and according to type of the substrate. The substrate must be mechanically resistant, and free from any loose dirt, greasy stains or water.

Prior to fixing the top layer membrane covering, check whether the next unrolled roll does not differ in the shade of granules on the upper side (which are a natural resource and their shade may change). Before welding IZOLMAT PLAN monomax® membrane it is recommended to prime concrete substrate with solvent-based bitumen products for example NEXLER Penetrator G7 or water-based bitumen products for example NEXLER BITFLEX Primer. Substrates made of underlayer membranes do not require priming.

Method of application, cont.:

An asphalt mass flow of 0,5 ÷ 1 cm width at the entire length of the welded overlap is required. Membrane should be applied at temperature no lower than 0°C. The temperature requirement applies to the time of day and night. At lower temperature of the environment the IZOLMAT PLAN monomax® membrane should be stored before use for 24 hours at temperatures no lower than +18°C. The tightness and durability of bitumen coverage also depends on careful fixing of its individual layers and the proper performance of roofing flashings. In the places where membrane application changes from horizontal to vertical, use polystyrene or hard mineral wool wedge and in these places it is recommended to use additional underlayer membrane strips. The top edge of membrane on vertical surface should be additionally fixed with special pressure strip mounted on pins and sealed with roofing sealant.

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 NEXLER Sp. z o.o. provides the direct buyer of the IZOLMAT PLAN monomax® membrane with:

- a special 20-year material warranty if underlayer membrane and the IZOHAN Sp. z o.o. primers are used
- or
- a standard 18-year material warranty if underlayer membrane is used or 15-year directly on thermal insulation boards.

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 IZOLMAT Insulation Systems documentation.

Transportation and storage:

The rolls of IZOLMAT PLAN monomax® 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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