

MC-Nafuplan 15

Self-adhesive modified Bituminous waterproofing membrane with multi-layer of PE.

- PRODUCT DESCRIPTION:**
- **MC-Nafuplan 15** is 1.5 mm thick self-adhesive, fully bonded SBS membrane consisting of a black polyethylene film, a self-adhesive polymer modified bitumen layer and an anti-sticky silicon oil isolation film.
 - **MC-Nafuplan 15** can be installed directly on the prepared concrete surface for providing an effective waterproofing layer for structures.

- PRODUCT PROPERTIES:**
- Self-adhesive, fully bonded SBS membrane with 1.5 mm thickness.
 - Provides excellent adhesion to concrete and various other substrates.
 - Offers good heat resistance and high elongation capability.
 - Easy to install and suitable for unconfined areas.
 - Excellent chemical, salt, chloride, and sulfate resistance, etc.
 - Provides high waterproofing performance.

- AREAS OF APPLICATION:**
- Waterproofing of non-exposed flat roofs, terraces, roof gardens etc.
 - Lining for cut-and-cover tunnels.
 - High-end waterproofing for the underground basement of buildings as a fully-bond system.
 - Protection of underground concrete from any subsoil contamination.

- APPLICATION NOTES:**
- **Substrate preparation:** The substrate should be smooth and free from any sharp protrusions and contamination, which affects the adhesion of the membrane. The surface should be free from any running or ponding water.
 - **Application:**
 - Unroll **MC-Nafuplan 15** and place it with proper alignment with the self-adhesive face on the prepared substrate.
 - Overlap the membranes at the cut edges and the roll ends by 100 mm. For better bonding on overlaps, peel back and completely remove the plastic release liner so that the two layers can properly bond on each other. Use hand roller to press the overlaps in order to ensure that there is no air bubble entrapped.
 - Special care should be taken at corners, protrusions and upstands to ensure proper continuation of the membrane. Use the one-sided butyl adhesive tape to ensure proper adhesion of the membranes in these areas to avoid any faulty joints.
 - **Special instructions:**
 - **MC-Nafuplan 15** can be installed in temperatures from -5°C and above. In cold conditions, extra care should be taken at overlap areas. Warm the adhesive edges using a hot air gun to improve bonding.
 - **MC-Nafuplan 15** is not suitable for direct UV exposure or traffic. It must be protected with protection boards or a protective screed layer.
 - **Damage repair:** In case, the membrane is subjected to any damage or puncture, it can be easily repaired with an over-sized patch of the same material, applied to a clean and dry surface. It is always recommended to double check the membrane and overlapping/termination joints after finishing the membrane application for any puncture or damage before application of the protective screed. If there is any damage visible then it should be repaired immediately.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Thickness	mm	≥ 1.5	
Tensile strength	MPa	≥ 4	ASTM D412 - 16
Elongation at break	%	≥ 300	ASTM D412 - 16
Nail shank resistance	N	≥ 110	EN 12310-1
Puncture resistance	N	≥ 250	ASTM E154
Joint peel strength	N/m	≥ 2000	ASTM D1876 - 08
Resistance to hydrostatic Head (70m, 60mins)		No leakage	ASTM D5385
Flexibility at low temperature (at -30°C)		No cracks	ASTM D1970
Heat resistance (at 70°C)		No dripping or flowing	

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

PRODUCT CHARACTERISTICS:

Shelf-life and Storage	Always store the rolls in a vertical position. Can be stored for at least 12 months in original unopened packs under dry and cool conditions. Protect from heat and frost.
Internal production supervision	In accordance with ISO 9001.
Form of delivery	Roll: 1.0 m x 20 m.
Accessories	One-sided butyl adhesive tape. Roll: 100 mm x 1.0 mm x 30 m.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition **11/2025**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.