

# MC-Nafuplan 18 DS

Double-sided self-adhesive modified bitumen waterproofing membrane with PP reinforcement.

## PRODUCT PROPERTIES:

- **MC-Nafuplan 18 DS** is a bitumen waterproofing membrane with 1.8mm thickness.
- Provides strong bonding strength with the substrate.
- Heat resistance and good elongation properties.
- Easy to install and suitable for unconfined areas.
- Good resistance for ground chemicals, salts, chlorides and sulphates, etc.
- Provides good waterproofing properties.

## 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 18 DS** 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 100mm. 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.
- **Terminations:** Depending on the site requirements, edge/corner terminations should be carried out by using suitable butyl adhesive tapes or other suitable terminating accessories. To get site-specific termination details please contact MC-BIFI Bauchemie for more advice.
- **Special instructions:** **MC-Nafuplan 18 DS** can be installed at temperature of -5°C and above. Installation of membrane in cold weather condition, care should be taken on overlapping area. Pre-heat the cut edges during overlapping by using hot air gun. Application of **MC-Nafuplan 18 DS** is not suitable for direct exposure to sunlight and traffic and it has to be protected by a protection board or a protective screed.
- **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
Membrane thickness	mm	≥ 1.8	
Tensile strength	N/50mm	≥ 200	ASTM D412 - 2016
Elongation at break	%	≥ 200	ASTM D412 - 2016
Tear strength	N	≥ 20	ASTM D1004
Puncture resistance	N	≥ 20	ASTM E154
Resistance to cylindrical hydrostatic pressure (70mm, min)		No leakage	ASTM D5385
Flexibility at low temperature (at -10°C)		No cracks	ASTM D1970 / D1970M-15
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:

<b>Shelf-life and Storage</b>	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.
<b>Internal production supervision</b>	In accordance with ISO 9001.
<b>Form of delivery</b>	Roll: 1.0 m x 20 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.

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