



MC-Nafuplan 15

Self-Adhesive, Modified Bitumen Membrane for Waterproofing

Product Properties

- Self-Adhesive, Fully Bonded, SBS membrane with 1,5mm 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 Vapour Barrier.

Areas of Application

- Waterproofing of RCC Roof, Terraces, Roof Gardens etc
- Protection of Underground concrete from any sub soil contamination in Underground retaining wall
- Waterproofing lining for Cut and Cover Tunnel, Subway, Underground pedestrian walkway.
- High end waterproofing for the underground basement of the buildings as a Fully Bonded system.

Application Notes

General

MC-Nafuplan 15 is 1,5mm thick Self-Adhesive, fully bonded SBS membrane consists of Black Polyethylene Film, Self-Adhesive Polymer Modified Bitumen Layer and Anti-Sticky Silicon Oil Isolation Film. **MC-Nafuplan 15** can be installed directly on the Prepared Concrete Surface for providing a waterproofing barrier to the structure.

Instruction for use

Surface Preparation

The **MC-Nafuplan 15** applied concrete surface should be smooth and should be free from any sharp protrusions and any other external contamination, which affects the Adhesion of the membrane. The surface should be Free from any Running water and should be in Dry Condition.

Application

For Application areas **MC-Nafuplan 15** is to be unrolled and placed properly with proper alignment. Lay the membrane with Self-Adhesive face to the prepared concrete surface. Side Overlap the membrane with each other by 80-120mm and End Overlap should be minimum 120mm. For better bonding on over laps, peel back and completely remove the plastic release liner so that two layers will be bonded perfectly. Press and roll it with hand roller to ensure that there will not be any air bubble in between the overlap joint. Required Care should be taken to ensure proper continuation of the membrane through corners and upstands. It is very important to ensure proper adhesion of the membrane in these areas to avoid any faulty joints.

Terminations

All the roll ends and cut edges should be overlapped by minimum 120mm by ensuring the bonding area, perfectly clean and free from any contamination. Depending on the site requirements edge/corner termination should be carried out by using Suitable double adhesive tape or other suitable terminating accessories. To get site specific termination details please contact MC-Bauchemie India for more advise.

Damage Repair

If in case, the membrane is subjected to any damage or puncture, then it can be easily repaired with an over-sized patch applied to a clean and dry surface fixed with suitable double adhesive Tape. It is always recommended to double check the membrane and overlapping/termination joints after finishing the membrane application and before application of Protective screed, for any puncture or damage. If there is any damage visible then it should be repaired immediately.

Special Instructions

MC-Nafuplan 15 Self-Adhesive waterproofing membrane can be installed at temperature of -5°C and above. Installation of membrane in cold weather application care should be taken to pre-heat the adhesive edge during overlapping by using hot air gun. Application of **MC-Nafuplan 15** is not suitable for direct exposure to sunlight and Traffic and it must be protected by help of Protection Board or by help of Protective screed. It should not be recommended



Technical Data For MC-Nafuplan 15

| Characteristic | Unit | Value | Comments |
|------------------------------------|-------------------|------------------|---|
| Thickness of the membrane | mm | 1,5 | ASTM D1005 |
| Tensile Strength | N/mm ² | 2,5 | ASTM D412 – 2016 |
| Elongation at Break | % | 230 | ASTM D412 – 2016 |
| Peel Adhesion To the concrete | N/mm | 2 | ASTM D903-1998 at 7 Days |
| Resistance to Hydrostatic Pressure | | No Water Leakage | At 5 bars for 1hour as per DIN 16726-2011 / ASTM D5385-2000 |
| Impact Strength | N.mm | 10 | ASTM G14 / ASTM D27941 |
| Lap Joint Strength | N/mm ² | 1,5 | ASTM D1876 |

Product Characteristics for MC-Nafuplan 15

| | |
|----------|---|
| Type | Self-Adhesive Flexible SBS Membrane |
| Delivery | 1,5mm with 1m X 20m Roll |
| Storage | Can be stored in original sealed packages in dry and cool conditions. The same requirements are valid for Transport |

Safety Advice

Please Take notice of the safety information and advice given on the packaging labels, safety information sheets and General Application Advice.

Note: - The information on this Data Sheet is based on our experiences and correct to the best of our knowledge. It is However, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our Data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are binding if given in written form. The accepted engineering rules must be observed at all times.

Edition: - MC/IND/R0/DEC2020, Some Technical Changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.