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MC-Nafuplan 403 MF

Reinforced Bituminous membrane for waterproofing - Stone surface, 3mm thickness.

PRODUCT PROPERTIES:

- **MC-Nafuplan 403 MF** bituminous membranes employ a compound consisting in distilled bitumen modified with elastoplastomeric polymers (APP). Its quality is highlighted by two indicators: flexibility at low temperatures (-5°C) and high temperature flow resistance (110°C). These parameters positively affect and contribute to increase the service life of the water proofing system.
- **MC-Nafuplan 403 MF** has good anti-aging properties and resists the aging effects of UV rays. This film is especially indicated for use in hot climates.
- The good flow resistance at high temperatures of these membranes makes them ideally suited for application in hot climates and for use on thermally-insulated roofs.

AREAS OF APPLICATION:

- Roof slabs.
- Terrace.
- Patios.
- Parapets.
- Concrete foundation.
- Basements.
- Pile heads.

APPLICATION NOTES:

- **Substrate preparation:**
  - Use the appropriate preparation equipment to achieve the required substrate quality. The supporting structure must be of sufficient structural strength to apply all new and existing layers of the waterproofing build-up. When used as a roofing membrane, the complete roof system must be designed and secured against wind uplift loadings.
  - The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, oil, dust, and loosely adhering particles.
  - Use bitumen primer **MC-Primer SB** or **MC-Primer WB**.
- **Surface finishing:** The top surface is finished with UV-resistant stone. The bottom surface has a polyethylene film that melts when burned.
- **Application:** Application procedure may vary slightly depending upon site condition. However below given are general guidelines:
  - **Alignment:** Unroll and alight **MC-Nafuplan 403 MF** correctly before torching. Overlaps should be a minimum of 10cm. In case of two or more layers, the sheets must be arranged in staggered rows with overlaps of the upper sheets in the middle of the lower sheets. Longitudinal overlaps must be in the same parallel to the slope.
  - **Torching:** After torching the membrane, roll forward and press firmly against the substrate to bond.
- **Caution:** Do not over torch. Over torching will expose the reinforcement in the membrane and cause damage.

TECHNICAL DATA & PRODUCT CHARACTERISTICS:

Characteristic	Unit	Value	Comments
Length	M	10.0	±1 %
Width	M	1.0	±1 %
Membrane Thickness	Mm	3	±10 %
Tensile Strength • Longitudinal • Transverse	N/5cm	 > 650 ± 200 > 400 ± 150	ASTM D5147
Elongation at Break • Longitudinal • Transverse	%	 30 ± 15 30 ± 15	ASTM D5147
Dimensional stability • Longitudinal • Transverse	%	 < 0.5 < 0.5	ASTM D5147
Flexibility • Longitudinal • Transverse	No surface rupture was observed		ASTM D146/D146m-04
Flexibility at low temperature	°C	-5	
Flow resistance at elevated temperature	°C	110	
Watertightness (A)	kPa	60	EN 1928
Flow resistance at elevated temperature after artificial aging	°C	110	
Color		Black	

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.

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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