

Mahaguard[®] NMB

Bituminous Elastomeric Rubberised Coating

Description

Mahaguard NMB is a liquid bituminous elastomeric waterproofing membrane, specially designed from a blend of special resin and rubber. It is an extremely flexible coating that can be efficiently applied to any thickness by roller or squeegee creating a fully adhered waterproofing coating with no wastage. It is water based waterproofing coating.

Features / Advantages

- A highly elastic product, and cures to a rubber like membrane capable of withstanding severe cases of expansion & contraction.
- More durable than normal asphalt coating and lasts longer than most other coatings.
- Superior adhesion properties ensure durable bonding to substrate and resistance to peeling, chipping and separation.
- Unique property of adapting itself over the irregular contours of the deck and forming a waterproof and impervious membrane.
- Single component, cold applied and does not require mixing and heating.
- It has good anti-root property.
- It has excellent adhesion to most of all concrete substrates
- It can be used with proper reinforcement / sandwich coat.

Typical Application

- It is used for concrete roofs, polyurethane foam slabs, polyester built up roofs, maintenance of existing roofs, masonry and concrete walls bathrooms, basements, bridges, decks, podium areas, metal surfaces, brickwork, asphalt & corrugated asbestos etc.
- It can be used as sandwich membrane in new construction and as a surface treatment on existing slabs.
- Protective coating in infrastructure projects in civil engineering on non-trafficked areas.

Technical Information

Sr.No.	PROPERTIES	STANDARDS	SPECIFICATION
1	Appearance		Smooth, Thick Paste
2	Color		Becomes black after drying
3	Solid Content	ASTM D 1644-03	55±2 %
4	Specific Gravity	ASTM D1475 - 03	1.00 + 0.05
5	Tack Free Time @ 35°C		2 to 3 hrs.
6	Drying Time @ 25° C.	ASTM D 1640 -03	9-10 hrs.
7	Water vapor Transmission gm/h-m ²	ASTM E 96-95	0.46
8	Resistance to standing water	ASTM D 2939	Passes
9	Service Temperature 30°C/120 hrs.		No shrinkage, Brittleness
10	Tensile Strength Mpa	ASTM D 412	1
11	Elongation Break (%)	ASTM D 412	> 1200
12	Tear Resistance KN/M		28±10
13	Tensile Set Recovery (%)		95
14	Crack Bridging Capacity	ASTM C 836	2mm to 3mm
15			
16	Adhesion Test		Excellent
17	Permeability	ASTM E 96	Passes

Methods of Application

Surface Preparation

All surfaces to be waterproofed should be sound, clean and dry. Concrete surfaces should have a light steel-trowel followed by a fine hair broom or equivalent finish which is dry and free of dust, oil and other contaminants. All high spots should be removed. Moss and laitance must be removed physically followed by treatment with fungicidal wash to kill any spores and inhibit further growth. After treatment wash down thoroughly with clean water and allow drying. All metal surfaces should be made clean of paint, oils, rust and other contaminants.

Priming

Priming is not normally required on good quality concrete substrates. However, absorbent surfaces such as porous concrete sand/cement and cement boards will require sealing to prevent absorption of Mahaguard NMB. This should be done using a 1:1 mixture of Mahaguard NMB & water. Or we can use Mahaguard Uniprime.

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Application

- Apply 1st coat of Mahaguard NMB with dilution of 10% - 15% of water over the primed surface.
- Apply 2nd coat in the interval of 8 - 10 hours with dilution of 5% - 10% of water in perpendicular direction.
- A short haired synthetic coating brush should be used.
- If a water test is to be done, the membrane should be fully cured. Minimum 72 hrs.
- For better results use Glass Fiber Reinforcement embedded into 1st coat while it is wet.
- Apply 2nd coat after 8 to 10 hrs of 1st coat.
- The dry film thickness (DFT) of Mahaguard NMB should not be less than 0.4 to 0.5 mm.
- Rough or textured surfaces will reduce the coverage rate and consequently more material must be allowed to achieve the minimum DFT.

Curing and Protection

- Mahaguard NMB must be cured for a minimum of 48 to 72 hours @ 25°C before placing protection. Where damage to the coating is possible (by traffic, backfilling, etc.) it should be protected by a cementitious screed or protection boards. A dust coat of cement or separation sheet should be used to prevent adhesion of the coating to the boards. Where a bond with the topping is not required, a separator sheet should be used.
- To prevent damage to the coating, it is recommended that Mahaguard NMB is laid in strips of 1 meter width to permit the application of a screed or Protection Board from the uncoated area.
- All exposed areas of Mahaguard NMB should be coated with Mahaguard Terrace Coat-SR or Mahaguard Wallcoat white to ensure maximum resistance to ultraviolet radiation.

Precautions

- Do not apply the material above 25°C substrate temperature.
- For better performance do not add excess water in the material.



Packing

1kg, 5kg, 20kg & 50KG



Storage and Shelf life

Shelf life is 12 months in sealed container. Store away from sunlight and preferably below 30°C. Storage should be frost protected.



Cleaning of Tools & Equipments

Tools: Clean all the tools immediately with water. Use of thinner may be necessary for dried up material.
Hands: Use a hand cleaner or water followed by soap.



Consumption

0.7 to 0.8kg/m²/0.4mm DFT. It may vary and depends upon surface undulations and other detailing.

Ecology, Health and Safety

Health & Safety instructions, all chemicals should not come in contact with skin and eyes or be swallowed. Protective gloves and goggles should be worn.

If contact with skin occurs, wash well with soap and water.

Eye contamination should be washed thoroughly with clean water and medical advice sought. If swallowed seek medical attention immediately. Do not induce vomiting.

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Disclaimer

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

Mahafix

WATERPROOFING SPECIALIST



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