

NIPPON PAINT LM MAT 100
Updated Sept'22

Before

After

Description:

Nippon Paint LM MAT 100 is used as reinforcement with the liquid applied waterproofing membrane. The fibers is randomly oriented structure that provides maximum multi-directional tensile strength to the liquid applied waterproofing membranes while remaining high elasticity.

Uses:

Nippon Paint LM MAT 100 is suitable for waterproofing reinforcement on applications such as:

- Roof flat roofs, terraces, and gutter
- Roof gardens, landscape areas, planter boxes
- Podium
- Driveways, suspended slabs
- Balconies
- Retaining walls and Lift pits walls
- Repair of old waterproofing membranes or refurbishment
- Seal up cracks line
- Complex details

Advantages:

- Good impregnation properties
- Ensures the correct thickness of waterproofing system
- Increases the tensile strength of waterproofing system
- Enhances crack bridging properties of the waterproofing system
- Easily moulded around flashing, protrusions, joints, corners and others details
- Quick application and easy handling to all different shapes and profiles
- High mechanical strength
- Superior acid resistance

Product Type	Product Grade	Roll Weight	Roll Size	Substrate
Fibreglass Mat	Nippon Paint LM MAT 100	Approx. 5kg/Roll	Approx. 50m ² /roll	Concrete, pipe, masonry, screed

Typical Technical Data

Form	: low alkali, borosilicate glass fiber in an amorphous vitreous state
Colour	: Transparent white
Area Weight, g/m ²	: 100
Roll Width, m	: 1 (±0.5%)
Roll Length, m	: 50
Breakage Strength, N	: ≥ 40
Overcoating Time	: please refer to the chosen liquid apply waterproofing membrane system TDS

Application Method
Substrate Preparation

The substrate must be thoroughly clean and dry, free from dust, algae, mildew, fungal, grease and oil. All the contaminants, previous waterproofing and impurity must be removed till bare substrate. Any cracks, honey combs, water leakage area should be repaired by **Nippon Paint Repair System** (for more detail, please refer to Nippon Paint Technical Department) before the waterproofing work proceed. The substrate must be sound and dry with no rising damp. The concrete surface should be flat and free from holes and undulations. Any holes and undulations should resurface with **Nippon Paint Scratch Coat System**. The surface should be clean smooth and cast to fall to allow water run-off.

Application

Measure the area and determine the cutting size, use scissor to cut to **Nippon Paint LM MAT 100** to desired size. Apply first neat coat of the selected liquid applied waterproofing membrane by using brush/ roller/ spray. Next, carefully lay **Nippon Paint LM MAT 100** onto the surface while it is still fresh. Press it down firmly to make sure it is perfectly wetted.

Apply second coat of the liquid applied waterproofing to spread evenly and continuously by using brush / roller / spray in perpendicular direction to the first, make sure **Nippon Paint LM MAT 100** is fully embedded without bubbling. Proceed with subsequent coats when required.

Overlap

Allow at least 50mm overlaps of **Nippon Paint LM MAT 100** at side laps. At borders or end joints to other waterproofing membranes, allow overlaps of minimum of 75mm.

Detail Work Embedment

When working on protrusions, up-stands, parapets or other fixtures and fittings which are not part of the main horizontal or vertical substrate, pre-cut the required dimension of **Nippon Paint LM MAT 100**. Apply the selected liquid apply waterproofing membrane to the area to be reinforced using a brush or roller. Immediately lay the pre-cut **Nippon Paint LM MAT 100** reinforcement onto the wet coating and press it down firmly to make sure it is firmly embedded.

Large Area Embedment

Apply the liquid apply waterproofing membrane at the correct coverage rate, working on 4 - 6 m² at a time. Lay **Nippon Paint LM MAT 100** onto the wet coating and make sure it is firmly embedded.

Recommended Waterproofing System

Refer to the chosen liquid apply waterproofing membrane system product datasheet

Environmental Conditions During Application

Refer to the chosen liquid apply waterproofing membrane system product datasheet

Storage and Transportation

This product should be stored at shaded or cool and adequate ventilation warehouse. This product should be away exposure from rain, sunlight, source of flame and heat. When transporting, care must be taken. It is always kept its packaging in a secure position. Failure to comply with the recommended storage may result in considerable premature deterioration of the product.

Safety Precautions

Refer to the chosen liquid apply waterproofing membrane system product datasheet