

Mahaguard[®] PU Coat

High Build Elastomeric Polyurethane Based Waterproofing Liquid Membrane

Description

Mahaguard PU Coat is flexible single-pack water based polyurethane and high solids waterproofing liquid membrane. It is tough flexible membrane which eliminates the need for a reinforcing layer which suited for light traffic area. It is highly durable waterproofing coating having excellent resistance to UV, alkaline and efflorescence, and mould and algae properties. It is breathable that allows trapped water vapors to escape from the roof without blistering.

Features / Advantages

- Non-toxic
- Water based product, hence an eco-friendly.
- Highly flexible will not brittle at wider temperature range, can be applied in moist roof also
- Excellent water vapour barrier
- Mechanical damage to the membrane can be easily repaired by spot application
- Excellent adhesion, can be applied to a wide range of substrates.
- Impervious -outstanding barrier properties ensure protection against corrosive soil conditions.
- Thermally stable - irreversible chemical cure eliminates melting and flow at high temperature

Typical Application

Foundations, basements, tunnels, ground floors, suspended floors, car decks, roof terraces, balconies, patios, bridges, precincts, and inspection pits water retaining structures (not potable water), sewage works, and inverted roofs.

Standard Compliance

Mahaguard PU Coat meets the requirements of ASTM C836

Technical Information

PROPERTIES	STANDARD	RESULTS
Appearance		Viscous white liquid
Specific gravity	(IS 101/1964)	1.55 ± 0.1
Solid Content (%)	(IS 101/1964)	78 ± 2
Elongation (%)	(ASTM D 412)	> 400
Tensile Strength	(ASTM D 412)	> 1.5 N/mm ²
Water Vapour transmission for 1.0 mm film		8.5 g/m ² /24 hrs.
Permeability	(ASTM E 96)	Passes test
Recovery after 100 % elongation	(ASTM D 412)	> 85
Shore A hardness	(ASTM D 2240)	> 60
Drying Time		45-50 min depending upon temp/ humidity

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 lantance 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.

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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 PU Coat. This should be done using Mahaguard Uniprime or a 1:1 mixture of Mahaguard PU Coat & water. For non-porous substrate use solvent base primer.

Cracks

All shrinkage and non-moving structural cracks should be pre treated with a polymer modified mortar or sealants. Allow to cure overnight before general application.

Application

- Mahaguard PU Coat is a membrane coating, not paint and as such protection is only achieved with a high film build, i.e. 1 mm minimum on flat surfaces.
- Two coats are recommended on uneven and jointed surfaces to minimize the possibility of thin patches, missed areas and pin hole. Also sloping or vertical surfaces will only accept 0.5 mm per coat. In case of two-coat application, it is important to re-coat within 12 hours of the first coat becoming sufficiently cured to allow operator access.
- The minimum application life (after opening the pack) is up to 48 hours if stored in closed containers.
- 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 of Mahaguard PU Coat while 1st coat is wet. Apply 2nd coat in the interval of 8 to 10 hrs after application of 1st coat.
- The dry film thickness (DFT) of Mahaguard PU Coat should not be less than 0.5mm per coat.

Precautions

- Do not dilute Mahaguard PU Coat with water or solvent.
- Do not apply the material above 25°C substrate temperature.



Packing

1kg, 5kg & 20kg



Storage and Shelf life

Store in a cool dry place under shed away from heat. Shelf life is One year in original unopened conditions.



Consumption

1.5- 1.8 kg/m² in two coats and DFT is 1mm. It may vary and depends upon surface undulations and other detailing.



Cleaning of Tools & Equipments

Tools and equipment should be cleaned with water immediately after use. Do not use the solvent for thinning except where a sealing coat is required.

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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