

Mahaguard BPU-780

Single Component Elastomeric Bituminous Polyurethane Liquid Membrane

Description

Mahaguard BPU-780 is bitumen modified flexible single-pack water based polyurethane and high solids waterproofing liquid membrane. It is highly durable waterproofing coating having excellent root resistance, alkaline & efflorescence and mould and algae properties

Features / Advantages

- Non-toxic
- Water based product, hence, an eco-friendly product
- Highly flexible will not brittle at wider temperature range, can be applied in moist roof
- Excellent water vapour barrier
- One component, ready to use. Cold applied so simple application and there are no joints in the membrane.
- Mechanical damage to the membrane can be easily repaired by spot application
- Highly elastic, cures to give a permanently flexible resilient barrier over a wide range of temperatures,
- Rapid installation; significantly reduces time spent on preparatory works and detailing,
- 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
- It has excellent Anti-root properties.
- Prevent mould and algae formation.

Typical application

The high elasticity, excellent bonding of Mahaguard BPU-780 makes it ideal for a wide range of waterproofing applications such as foundations, basements, tunnels, ground floors, suspended floors, car decks, roof terraces, balconies, bridges, precincts and inspection pits water retaining structures (not potable water), sewage works, and inverted roofs.

Standard Compliance

Mahaguard BPU-780 meets the requirements of ASTM C-836

Technical Information

Sr.No.	Properties	Standard	Results
1	Appearance		Black colored viscous liquid
2	Specific gravity	(IS 101/1964)	1.55 ± 0.1
3	Solid Content	(IS 101/1964)	78 ± 2 %
4	Elongation	(ASTM D 412)	> 500 %
5	Tensile Strength	(ASTM D 412)	> 2.2 N/mm ²
6	Drying Time @ 25° C. Pull-off Adhesion	(ASTM D 4541)	> 2.5 N/mm ²
7	Water Vapour transmission for 1.0 mm film		8.5 g/m ² /24 hrs.
8	Permeability	(ASTM E 96)	Passes test
9	Recovery after 100 % elongation	(ASTM D 412)	> 85%
10	Shore A hardness	(ASTM D 2240)	> 62
11	Drying Time		45-50 min depending upon temp/ humidity

Methods of Application

Surface Preparation

Surface must be thoroughly cleaned, free of dust, grease etc. and washed well with water. Treat any areas affected by algae, moss or fungal growth with biocide wash solution. The surface to be checked for cracks, hollowness and loose plastered areas etc. if any. All loose plaster and cracks larger than 10 mm width to be repaired a polymer modified mortar by using **Mahacrete SBR Super** or **Mahaproof PU-600 sealants**. Allow to cure overnight before general application. The cracks up to 5 mm to be treated with **Rhino Crackseal-Paste**.

Priming

Priming is required on concrete substrates. However, absorbent surfaces such as porous concrete sand/cement and cement boards will require sealing to prevent absorption of **Mahaguard BPU-780**. This should be done by using **Mahaguard Uniprime** as base primer. For non-porous substrate use **Mahaguard Uniprime-11** as primer.

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Application

- Mahaguard BPU-780 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 24 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 BPU-780 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 BPU-780 should not be less than 0.5mm per coat.

Protection

- Mahaguard BPU-780 must be cured for a minimum of 24 to 48 hours @ 25°C before placing protection. Where damage to the membrane 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 membrane to the boards. Where a bond with the topping is not required, a separator sheet should be used.
- All exposed areas of Mahaguard BPU-780 should be coated with Mahaguard PU Coat-781 to ensure maximum resistance to ultraviolet radiation.

Precautions & Limitations

- Do not dilute Mahaguard BPU-780 with water or solvent.
- Do not apply the material above 25°C substrate temperature.



Packing

5 kg, 20 kg.



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

1.3- 1.5 kg/m²/ 1mm DFT/2 coats. Rough or textured surfaces will reduce the coverage rate and consequently more material.



Cleaning of Tools & Equipments

Tools and equipment should be cleaned with water immediately after use.

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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Liquid Membrane

Disclaimer

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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.

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