

DECK ELASTIC-M

Cementitious Elastomeric Membrane System for Waterproofing

INTRODUCTION

Deck Elastic-M is a two component cementitious waterproofing & protection system. It is a polymer modified hydraulically setting slurry, which forms an Elastomeric watertight membrane on drying. Being a cement based system it has a wide range of application viz Terraces, Toilets, Swimming pools, Water tanks, Basements, Podiums etc.

DECK ELASTIC-M produces a seamless elastic film on hardening and provides adequate abrasion resistance for foot traffic. Being elastomeric it provides excellent flexibility and crack bridging ability.

DECK ELASTIC M is reinforced with a fiber-glass mesh to impart additional tensile strength and improve the crack-bridging properties.

The product is supplied as a two component system viz Deck Elastic - Powder (Part A)

Deck Elastic - Liquid (Polymer Component) (Part B)

To impart high tear resistance with adequate flexibility, the fiber-glass mesh 'DECK NET' is used as sandwich reinforcement layer in between the multicoat system of DECK ELASTIC-M. DECK-NET is fiber glass net of 4mm to 5mm square-netting. It is used as a sandwich reinforcement for Deck Elastic-M application especially at corner junctions of concrete, or concrete and brick, or brick-and-brick and construction joints in concrete.

APPLICATION AREAS

- Waterproofing of water retaining structures, tanks etc.
- Waterproofing of large size terraces, balconies, bathrooms, swimming pools etc.
- Waterproofing of Cement board, cement plaster surface, aerated concrete blocks.
- Hollow core Slabs or Pre cast panel slabs
- Restoration and protection of cementitious mortar surfaces form weathering.
- Protection of concrete surface from saline water, sulphate, etc.

KEY FEATURES

- Water borne system – no harmful volatile content emission – can be easily applied in closed areas like bathroom, toilets etc.
- High build membrane – mistakes in application can be easily detected
- Ultra high toughness
- Stable against UV exposure and hydrolysis
- Maintains flexibility even at low temperatures

TECHNICAL DATA

Form	Powder	Grey
	Liquid	Milky White
Mixing ratio	Powder:Liquid :: 3:1	
Mix consistency	Smooth paste	
Pot life	25 mins @ 25°C	
Cure time	3 days	
Bond strength	> 1.5 N/mm ²	
Tensile strength	> 10 N/mm ²	

APPLICATION PROCEDURE

Surface preparation

1. The surface of concrete, brickbat or plaster on which the membrane is to be applied must be structurally sound, free from oil, loose materials, laitance, grease etc.
2. Ensure that the surface is well prepared by using wire brush, grinders, blowers, vacuum cleaners etc. (as the case may be).
3. Cracks, honey combs, pot holes, damaged concrete surfaces and construction joints must be repaired with suitable repair materials.

Mixing

4. To ease the proportionate mixing, Deck Elastic is packed and supplied in such a manner that the mixing ratio Powder : Liquid = 3 : 1 shall be maintained at site.
5. Take a clean bucket and pour the Part B (Liquid component) and add Part A (Powder component) in small increments. While adding Powder Component mixing shall be done with slow speed helical stirrer (400 RPM or lower). Keep mixing until you get homogeneous paste free of lumps. It generally takes 5-6 minutes to obtain the desired paste consistency.

Application

6. This ready mix shall be applied within 45 minutes of preparation. This mix shall be applied in uniform thickness with flat trowel. The first coat shall be cured for 4/5 hours and the second coat shall be applied in same manner. DECK NET shall be embedded between second and third coat. Let these coats cure for next 4/5 hours then the finishing last coat shall be applied on it.
7. Ensure that the 1st coat is well dried before the application of next coat.
8. To achieve good elastomeric properties, Deck Elastic should be applied in layers. The consumption of each coat/layer is around 1.5 kg/m² depending upon the base surface. However the total consumption would be 3.5 to 4.00 kg/m²
9. Deck Elastic should be applied within the temperature range of 10° C to 35° C.
10. The surfaces should be protected from direct sunlight, heavy wind & rains during application process.
11. The system is self-curing and no other curing is required.

PRECEEDING TREATMENT

1. Ceramic or Vitrified tiles can be fixed directly on completely cured Deck Elastic M membrane with Deck Tile - cementitious adhesives (please refer Deck Tile Technical Data Sheet).
2. The membrane can be left exposed to sunlight exposure. Light foot traffic can be allowed on it.
3. Avoid pointed objects, dragging equipment on the membrane or any such act which may puncture it.

DO'S AND DON'TS

- Deck Elastic M shall not applied for more than 2 mm in single coat.
- It should not be applied when ambient temperature is below 8°C
- The membrane should be protected from direct contact with water for first 24 hours of application.
- The membrane must not be kept exposed to direct vehicular traffic or any mechanical damages. In such cases membrane should be protected with DECK Screed OR specially formulated cementitious screeds.
- In case of high wind or Hot day (> 35°C) cover the fresh membrane with sheet to avoid rapid

drying.

PACKAGING

Deck Elastic Powder M – 30 Kg bag

Deck Elastic Liquid – 10 Kg can

Deck Net – 49 m x 1 m roll

STORAGE

Deck Elastic Powder M must be stored in the original sealed packaging under cool and dry conditions. It must be protected from exposure to moisture or water. Shelf life is 6 months from the date of manufacturing if stored following aforesaid method.

Deck Elastic Liquid should be stored at room temperature in sealed container. Store in the original container with the lid closed appropriately. Avoid extreme temperatures and direct exposure to sunlight. Shelf life is 6 months from the date of manufacture if stored following aforesaid method.

HEALTH AND SAFETY

Kindly wear hand gloves and safety goggles while handling the product. Any contact with eyes should be washed immediately with clean water and medical advice should be sought. Do not swallow. Avoid contact with food or cooking utensils and keep away from children's reach.

PRODUCT DISCLAIMER

This product is manufactured with utmost care and precautions using best available materials, techniques and keeping in view the end use and assured performance. However, no specific guarantee can be given since the application of the product (prevailing site and environmental condition while applying etc.) is beyond our control. We therefore welcome consultation in the event of doubt about application performance.