

DECK PROOF

High build Flexible Membrane System for waterproofing

INTRODUCTION

DECK PROOF is a unique, effective and highly flexible waterproofing membrane having a high degree of crack bridging property. Being aqueous, it is easy to apply and is user friendly.

Deck Proof is a liquid applied system and does not require welding procedure (unlike APP, PVC, bitumen based waterproofing membranes) which is the major source of waterproofing failures. The system is made using highly stable acrylic polymer binders and non-woven fabrics which have excellent compatibility and watability with each other. The resultant Deck Proof membrane has excellent bonding, durability and toughness.

The reinforcement provided in the membrane system is a highly saturant 120GSM Polyester based non – woven fabric. This system does not allow the core cracks (if any) to surface due to elastic properties of the chemical base of Deck Proof and highly flexible characteristics of the reinforcement.

Deck Proof is most suited for waterproofing of terraces, roofs, balconies and podiums.

KEY FEATURES

- Water borne system – no health hazard
- Fast drying and curing
- Good bonding with concrete, brick, stone.

TECHNICAL DATA

Consistency		White paste
Density		1.2 Kg/ Liter
Solid content		>60 %
Mixing ratio	Primer	Deck Proof:Water = 1:2
	Coating	Deck Proof:Water = 1:0.3
Application temperature		5 to 35 °C
Curing time between two coats		8-10 hours
Final Curing time		4 days
Coverage		1.6-1.8 Kg/m ²
Tensile strength (ASTM D412)		4.5 MPa
Max. elongation (ASTM D412)		130 %
SRI (ASTM E1980)		90

APPLICATION PROCEDURE

Surface preparation

1. Ensure that the surfaces are absolutely clean, dry and free from dust, loose concrete or mortars, rust, oil & grease and laitance.
2. Ensure that the concrete substrate is dense, compact, strong and well cured. Any entrapped moisture content should be less than 5% for best results.
3. Clean such substrates with grinders, blowers & vacuum cleaners as the case may be. High pressure water jet can be used to obtain desired degree of cleaning.

Priming

4. The primer is to be prepared at site by diluting Deck Proof with clean (Potable) water and thoroughly mixing the material. The primer (Deck Proof: Water = 1:2) is applied with Brush or Roller.
5. Ensure that the primer is applied on totally cleaned up and sound surface by pressing against the prepared substrate.

Membrane application

6. Apply 1st coat of Deck Proof (Deck Proof: Water = 1:0.3) and allow to dry for at least 6 hours.
7. Apply 2nd coat of Deck Proof (Deck Proof: Water = 1:0.3) and fix 120 GSM Polyester fleece duly saturated in the same solution on the WET 2nd coat. Press the fleece with brush, squeeze or roller to remove all entrapped air. Immediately apply 3rd overcoat wet-on-wet. Now allow the system to dry off completely.
8. Apply the final coat of Deck Proof (Deck Proof: Water = 1:0.3) and allow the system to dry off. The total coating system matures after 24 hrs and is ready for foot traffic after 48 hrs.

Curing

9. This is a self-curing system. However a gap of 24 hours between every coat is recommended. Final maturity time is 48 hours under normal working temperatures. The clearance for subsequent activities like protection screed or insulation system etc. can be given after 48 hrs of final coat. Please be informed that low temperature and high atmospheric humidity will delay the setting time.

PRECAUTIONS

- Deck Proof membrane is a flexible system and quite resistant to foot traffic. However heavy traffic, high heel pointed shoes, sharp furniture dragging etc. will damage the membrane. Hence a protection of cementitious screed is essentially required to be laid after the membrane is fully cured.
- Since the system is based on Acrylic Polymers which are water miscible, never apply the material if rains are expected.
- For areas that are constantly submerged in water Deck Proof membrane alone is not recommended as a waterproofing solution. The system should be assisted by a ferrocrete jacket or crack free screed jacket. (Contact manufacturers for design specifications.)

DO'S AND DON'TS

- Do not apply DECK PROOF when temperature is below + 5°C or more than 35°C OR rain is forecasted.
- Do not apply if surface is wet.
- Do not apply if the humidity is greater than 80%.
- Do not apply in the case of rising dampness.

PACKAGING

40 kg Drums/ 20 Kg Pail

STORAGE

Deck Proof must 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 & 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.