



# ULTRA MEMBRANE SEAL

## Two Component Flexible Coating

Admixtures

Surface Treatments

Protective Coatings

Concrete Repairs

Industrial Flooring

Grouts & Anchors,

Adhesives,

Water Proofing

Sealants

### DESCRIPTION

Ultra Membrane Seal is a two component flexible water proofing & protective coating, composed of best quality Portland cement properly selected & graded aggregates, additives & acrylic emulsion polymer as a binder. Ultra Membrane reacts chemically after mixing to form a hard and flexible film which bonds tenaciously to most concrete or masonry substrates. Ultra Membrane prevents intrusion of water, yet allows entrapped moisture to be released.

### TYPICAL USES

Ultra Membrane is ideally suited for:-

- Cast-in-place and pre-cast concrete.
- Waste water treatment plants.
- To protect exposed steel rebars from corrosion.
- Potable water tanks.
- As a backing to marble, tile and granite to prevent water ingress and thus alleviate surface staining.
- Most suitable for Shell roofs, precast roofs, tile roofs and basements
- Best alternate for geo membrane/bitumen membrane

### COVERAGE & THICKNES

Ultra Membrane coverage is about (5.33-6.67) sq ft/kg and it can be applied in between the thickness of about 1.2mm to 2mm.

### CHARACTERISTICS

Highly resistant to the effects of long term weathering
Durable in all climatic conditions
Flexible and best suited for precast roofs
Highly resistant to standing water
intended for use on vertical and horizontal surfaces

### TECHNICAL SPECIFICATION

Pot life at 20C:	1Hour
Density	1.75 Kg/ltr
Bridge crack up to 2mm:	Passed
Adhesion	2to 3 N/mm (ASTM D4541)
Modulus of elasticity:	19000 N/mm Approx.
Coefficient of thermal expansion	13.10-6 Approx. .
Hardness Shore A	>83(ASTMS 2240-91)
Flexural strength	10N/mm (According to EN 196 -1)28 Days .
Tensile strength	4N/mm (According to DIN 53455)14 Days
Elongation at break	200% (ASTM D 412 -92)28 Days

### SURFACE PREPARATION

All surfaces to be coated must be clean and structurally sound. Surface where membrane is applied should be cleaned from dirt, oil or any kind of surface contaminant All static cracks or breaks, voids or honeycombing larger than 1/32" should be cut out and repaired with polymer modified repairing mortar.

### MIXING

The membrane liquid is poured from the plastic container into a plastic or metal drum having a volume of at least 5 liters. Then powdered component is gradually added while mixing with a slowly speed drill fitted with an approved mixing paddle. Mixing must be continued until lump free slurry is obtained.

### APPLICATION

Pre-dampen the substrate surface with water using a brush or spray bottle. High porosity substrates will require more dampening than dense substrates. Whilst the surface is damp, apply the material using a soft bristled brush (120mm-200mm wide). Application may also be made by roller, or spray machine. The first coat should be allowed to cure for a minimum of 5 hours at 20°C or 3 hours at 35°C prior to a second application, should it be required. If over coating is done more than 24 hours after applying the 1st coat or the 1st coat has already dried out, the surface must be pre-wetted again. For spray application the substrate should be prepared in the same manner as for brush application. The required film thickness can be achieved in one application.



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### STORAGE & SELFLIFE

The pails and boxes must be stored in a covered, dry and shaded area, away from direct sunlight, UV and other sources of heat and protected from extreme temperatures. The self life of the product is up to 12 months if stored as per the recommendations. Excessive exposure to sunlight and UV will result in the deterioration of the quality of the product and reduce its shelf life.

### HEALTH & SAFETY

Ultra Membrane is irritating to the eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment. Ultra Membrane liquid is not classified as dangerous. Ultra Membrane when mixed becomes highly alkaline, wear suitable protective clothing, gloves and eye protection.

### PACKING:

15 Kg Kit  
(10kg Powder and 5 Kg liquid)  
Note: Our production facility at Lahore Pakistan is ISO 9001- 2008 certified for Moody International. As per certificate No. 04-A-11-QMS 0019.

### PRECAUTIONS/LIMITATIONS

Do not apply Ultra Membrane to surfaces that have not been properly cleaned or are unsound. Do not apply in rain or when rain is expected before initial set has taken place. Do not apply to frozen or frost filled surfaces or when the temperature is below (4°C). For additional Information contact Ultra Chemicals PVT LTD.

### WARRANTY:

The Ultra Chemicals LLC ("Ultra") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of Ultra, no other representations or statements made by Ultra or its representatives, in writing or orally, shall alter this warranty. Ultra Makes no Warranties, implied or otherwise as to the merchantability or fitness for ordinary OR particular purposes of its products and excludes the same. If any Ultra product fails to conform to this warranty, Ultra will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Ultra does not authorize anyone on its behalf to make any written or oral statements which in any way alter Ultra's installation information or instructions in its product literature or on its packaging labels. Any installation of Ultra products which fails to conform to such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Ultra's products for the Buyer's intended purposes.



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