

KUT AQUAPROOF MEMBRANE

Flexible Latex Waterproofing Membrane



PPC-05-1110

DESCRIPTION

KUT AQUAPROOF MEMBRANE is a two component product consisting of Part "A" waterproofing powder and Part "B" a blend of liquid acrylic latex copolymers. Both products part "A" and Part "B" are mixed at the job site and applied with a brush or trowel. During the membrane application a fiberglass is embedded within the wet cementitious mix.

USES

As a waterproof lining for water retaining structures/ swimming pools.

- As a waterproof coating for sea-water structures.
- As a waterproof coating for concrete slabs, roofs, balconies, kitchens and bathrooms under tiling floors.
- As a coating for sewage treatment plants.

ADVANTAGES

- Easy to use: Easily brushable or trowel applied product.
- Constant quality: Always fresh locally, manufactured factory quality controlled product.
- Durability: This latest technology combination of special raw materials deliver superior durability under our local climatic exposure.
- Adhesion: Excellent bond strength of porous and non-porous surfaces.
- Flexibility: The Part "B" component is specially blended copolymer of acrylic latex which improves adhesion flexibility and waterproofing characteristics.
- Anti-carbonation: A membrane of 1 to 1.5mm thickness provides an excellent shield against the penetration of carbon dioxide and chloride ions.
- Waterproofing: Excellent even under pressure.
- Vapour Permeability: A fully cured membrane of 1 to 3mm thickness is vapour permeable and allows the substance to breathe.

TYPICAL PROPERTIES

Test conducted at our factory laboratory have given the following results:-

Water permeability	: Nil
Tensile strength	: 39 N/mm ² (380 kg/cm ²)
Thickness of membrane	: 3mm
Compressive strength	: 16 N/mm ² (160 kg/cm ²)
Bond strength of concrete	: 1.6 N/mm ² (16 kg/cm ²)
Fire rating	: Non-combustible.

MIXING

KUT AQUAPROOF MEMBRANE is supplied in premeasured units mixed at the site using clean plastic pails. Gradually add the dry powder (Part A) to the liquid (Part B) and "mix" using a slow speed electrical drill fitted with mixing paddle. Do not mix more materials than can be applied within 1 hour. For small size mixes, use 2 to 2.5 volumes of powder for 1 volume of liquid. Mix thoroughly and keep mixing during application. Do not re-mix by adding water.

SURFACE PREPARATION

All substrates to be treated with **KUT AQUAPROOF MEMBRANE** must be structurally sound and clean from all foreign products, grease, oil, mould release agents etc. which should be removed by sand or high water pressure blasting. Few days prior and immediately before the installation of **KUT AQUAPROOF MEMBRANE**, the substrate should be well soaked with water and then primed with **KUT FLEIXIBOND** applied at the rate of 1 kg/4 m². Allow this priming coat to cure partially for about 30 to 40 minutes prior to the installation of the **KUT AQUAPROOF MEMBRANE**.

APPLICATION

Apply the properly mixed paste of **KUT AQUAPROOF MEMBRANE** at 1.5 mm using a stiff bristle emulsion type brush, whilst the membrane is still green embed the reinforcing fiberglass fabric onto the surface of the cementitious membrane.



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Allow an overlapping of 50 mm width on each edge sides and also allow for 100 mm overlap on all upstands. Leave this membrane to harden sufficiently to accept the installation of the second coat . Install the second coat alike the first one with a stiff bristle emulsion brush at 1.5mm thick and steel trowel lightly to level smooth the surface. Allow **KUT AQUAPROOF MEMBRANE** to cure for 7 days @ 30°C or above or 14 days at 20°C or below, then wash down surfaces completely with water. Subsequently it may be subjected to water pond testing.

PACKAGING

KUT AQUAPROOF MEMBRANE is available in: (Part A) 20 kg waterproofing dry powder, (Part B) 5kg liquid polymer. The fibreglass membrane in rolls of 100 meters or cut to required lengths and the

KUT FLEXIBOND primer in 5 and 20 kg packs are also available.

Coverage: One 25 kg kit covers 6 m² approx. at 2.5 to 3 mm thickness.

PRECAUTIONS

Protection: All work must be protected from rain and frost until fully hardened

Storage: Shelf life of 12 months when stored in dry conditions at moderate temperature and humidity. Protect Part-B from frost.

PERFORMANCE STANDARDS

DIN 1048 Part-2 for water penetration test.
BS-1881 Part-5 1983-I.S.A.T.

HEALTH AND SAFETY

KUT AQUAPROOF MEMBRANE is non-toxic but mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.

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