



# KUT AQUASHIELD

## Elastomeric Waterproofing Membrane

PPC – 10 - 0104

### DESCRIPTION

**KUT AQUASHIELD** 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, roller or squeegee. During application a fiberglass mat may be embedded within the wet cementitious mix to provide reinforcement.

### USES

**KUT AQUASHIELD** allows expansion and contraction over a broad temperature range and maintains flexibility and waterproofing properties under continuous exposure to water above or below grade. **KUT AQUASHIELD** has a thixotropic consistency and may be used on vertical as well as horizontal surfaces. **KUT AQUASHIELD** remains flexible from  $-35$  to  $+90^{\circ}$  C. **KUT AQUASHIELD** waterproof membrane is intended for use wherever overflow water must be contained.

Suggested areas of application are as follows:

- Waterproofing between slabs, such as parking decks, roof decks or courtyard areas over subterranean parking.
- Waterproofing exterior walls or foundations and basements or other structures that are to be backfilled.
- Waterproofing inside planter boxes.
- Waterproofing under terrazzo or tile floors, showerpans, kitchen, laundry and bathroom floors.
- Waterproofing inside elevated swimming pools.
- Waterproofing occupied areas under malls, plazas etc.
- As a waterproof lining for water retaining structures.
- As a waterproof coating for sea-water structures.
- As a coating for sewage treatment plants.

**Water Tanks** : **KUT AQUASHIELD** can be used with outstanding success as a lining for emergency water storage tanks. **KUT AQUASHIELD** fills and covers cracks and because of the flexibility allows them to move with changes in temperature. The product is firmly bonded to the substrate so water cannot flow underneath the lining as it does with sheet lining materials.

### ADVANTAGES

- **Easy to use** : Easy to apply by brush, roller or squeegee.
- **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 to porous and non-porous concrete 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 carbondioxide and chloride ions.
- **Waterproofing** : Excellent even under pressure.
- **Vapour Permeability** : A fully cured membrane of 1 to 3 mm thickness is vapour permeable and allows the substrate to breath.
- **Special Features** : A fully cured membrane is non-toxic, hard wearing seamless shield capable of bridging surface cracks.

### TYPICAL PROPERTIES

- **TENSILE STRENGTH [N/mm<sup>2</sup>]** :  
0.5 N/mm<sup>2</sup> [at 23<sup>o</sup> C]; [6N/mm<sup>2</sup> at -20<sup>o</sup> C]
- **Elongation [%]** : 100 [at 23<sup>o</sup> C];20% [at -20<sup>o</sup> C]



Specialities Construction  
Chemicals Factory



Amghara Industrial Area, P.O.Box: 23595 Safat, 13096 Kuwait, Tel: +965 4565165 - 4565145 Fax: +965 4565135  
Email: technical@aspeckuwait.com

- **Water Vapour Permeability** : 15 gm/m<sup>2</sup> at 1mm thickness on a Aerated Concrete substrate.
- **CO<sub>2</sub> diffusion** : Equivalent Air thickness Rb ≈ 100m [Substrate - Cement Mortar].
- **Adhesion to concrete** : Excellent.

**NOTE:** All above mentioned properties are typical and should not be construed as a specification. Additionally these properties have to be tested after 28 days air cure of films at 25° C and 50% RH.

- **Cure Time** : 16 Hours between coats.
- **Curing Period** : Whilst there is no need for a curing aid, it is important that applied surface is allowed to cure on its own for at least 7 days at 30° C and above 14 days at 20° C or below. Any testing (if required) should be carried out after the curing period.

**Note :** If **KUT AQUASHIELD** is used in tanking situations it is preferable to wash down the surface with water after the curing period and then put into use.

- **Mixing** : Take about 2/3rd quantity (3 kg.) of **KUT AQUASHIELD** Part-B. In a suitable mixing vessel. Then add **KUT AQUASHIELD** Part-A powder under stirring. For stirring use a slow speed drill & paddle. Stir well to a smooth lump free paste. Add the balance quantity of Part-B. Adjust to the required consistency depending on method of application with upto 5% by weight of clean water (i.e. about 750ml).

## APPLICATION

Apply the properly mixed **KUT AQUASHIELD** using a stiff bristle brush, roller or squeegee. If a reinforcement is required or specified, embed the reinforcing fabric on the surface whilst the coat is still green. Allow an overlapping of 50 mm width on each sides and also for 100 mm overlap on upstands. Leave this coat to harden for 16 hours prior to installation of the second coat.

Install the second coat alike the first one with brush or roller. It is recommended that the total application thickness of the two coats without reinforcement should be around 1-1.5 mm. Do not exceed thickness of 4 mm. Moreover the thickness of each coat should be between 0.5 to 1.5 mm.

## PACKAGING

**KUT AQUASHIELD** is available in a 15kg double pack consisting of a dry power (Part -A) and liquid polymer (Part B)

**YIELD & COVERAGE:** A 15 kg pack yields 8.5litres and therefore at 1 mm thickness it will cover 8.5 sq. meters.

## PRECAUTION

**Cleaning:** All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage systems.

**Protection** : All works must be protected from rain and frost until fully hardened. It is recommended to protect with polyethylene sheeting or similar.

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

## HEALTH AND SAFETY

**KUT AQUASHIELD** is non toxic but is 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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