

AQUASTOP

CEMENTITIOUS WATERPROOFING MEMBRANE

AQUASTOP is a thin, load bearing waterproofing system which offers high bond strength and chemical resistance. It has a built-in resiliency combined with load bearing quality that enables the membrane to absorb physical shocks and eliminate cracking of the joints under wheeled traffic. Unprotected Aquastop membrane takes light foot traffic and is suitable for terraces, sundecks, patios, roof deck and similar outdoor areas.

RECOMMENDED USES

- Designed for under water use- tank linings, kitchens, swimming pools, fountains.
- Under thin set ceramic tiles, pavers, stone, marble, indoor or outdoor carpeting, synthetic grass and concrete toppings.
- Can be used over existing ceramic tiles or terrazzo.

ADVANTAGES

High strength and heavy duty waterproofing
Seamless.
Resistant to physical and thermal shocks.
Chemical resistant, non-flammable and non-toxic.
Handles the differential movement between tiles and concrete.

PHYSICAL PROPERTIES

| | |
|----------------------|--|
| Density | 1,500 Kg/m ³ |
| Water Permeability | 30 Ft.Hydro/1 Atmost. |
| Compressive strength | 3000 psi |
| Tensile strength | >400 psi |
| Bond strength to: | |
| Concrete | 500 psi |
| Steel | 180 psi |
| Glass | 100 psi |
| Tile | 200 psi |
| Bricks | 200 psi |
| Service temperature | -70 deg F. to +350° F (Unaffected, exposed) |
| Fire rating | NON COMBUSTIBLE |

CHEMICAL RESISTANCE

| | |
|------------------|--------------|
| Brine | Not affected |
| Calcium Chloride | Excellent |
| Dilute alkali | Excellent |
| Dilute Acid | Excellent |
| Mineral Oils | Good |
| Sugar | Not affected |
| Milk | Not affected |
| Urine | Not affected |

Not recommended where exposed to ketones and aromatic solvents.

REINFORCING FABRIC DATA

| | |
|-------------------------|-----------------------|
| Unit weight | : 65 g/m ² |
| Mesh size (wrap) | : 9 |
| (weft) | 9 |
| Yarn type (wrap) | : 50 Tex |
| (weft) | 99 Tex |
| Tensile Strength (wrap) | : ≥ 450 |
| (N/5cm x 20cm) (weft) | : ≥ 650 |
| Waiving style | : Leno ^o |
| Size content | : 20 ±2 |

INSTALLATION INSTRUCTIONS

Preparation

The surface to be waterproofed should be clean and free from dirt, oil, grease, etc. Dry or dusty slabs should be dampened and the excess water swept off. Installation may be made on a damp surface.

Plan the sequence of placement. Pre-cut the reinforcing fabric into lengths allowing 2" (50 mm) for overlap and a minimum of 4" (100 mm) at each end for flashing cove base upto the wall. Roll up the cut fabric, so that each piece of fabric may be properly placed and unrolled into wet waterproofing paste.

Examine the floor surface for cracks and cold joints which will require additional layers of reinforcing fabric. Use a 6" (150 mm) wide strip of fabric and waterproofing paste to reinforce all cracks and joints prior to waterproofing application. Apply an extra layer of fabric and waterproofing paste to flash into drains, at outside corners and at areas which are subjected to stress or movement. Floor surfaces that require patching, levelling or pitching to drains shall be prepared prior to the placing of the membrane. All patching and levelling should be carried out using CEMMIX LATEX ADDITIVE with a 1:3 mixture of Portland Cement and sand.

Mixing

Add the powder component to the latex liquid and mix either by hand or conventional mixer of the rotating drum type. Mixing can also be carried out using an electric slow speed drill. 13 mm paddle should be attached. Keep the material as stiff as possible for the intended use. Over mixing should be avoided - it will entrap air. Total mixing time per unit of **AQUASTOP** should not exceed five (5) minutes. Do not add water to the mix.

Application

Use a trowel or squeegee to apply thin layer (Approx. 1.5 mm) of waterproofing material slightly wider than the width of the fabric. Spread the paste

then immediately unroll and embed the reinforcing fabric into the wet mortar. Immediately spread another thin layer of waterproofing material on top of the fabric until it completely and uniformly seals the fabric. Lap the fabric 2" (50 mm) at seams. Be sure the product completely covers and seals the fabric with a smooth surface free of pinholes and voids.

The same procedure applies to cover horizontal and vertical applications.

Curing

AQUASTOP is self curing system. However, when areas are exposed to sunlight, rapid air movement or very warm temperature cover with wet burlap or a fog mist spray for at least 24 hours.

PACKAGING

- 20 Liters waterproofing liquid
- 50 Kg waterproofing powder
- 20 Sq. meter reinforcing fabric.

COVERAGE

Each unit of **AQUASTOP** will cover an area of approx. 15 sq. mtrs. at 3mm thickness.

PRECAUTIONS & LIMITATIONS

- No sealers or curing compounds shall be used on concrete slabs which are to receive **AQUASTOP** waterproofing membrane.
- Application of **AQUASTOP** should not be made when air or surface temperature is below 7° C.
- Allow the membrane to cure for at least 7 days.

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.