



## Aqua Blok<sup>TM</sup> RAPID



**AQUA BLOK<sup>TM</sup> RAPID** is formulated on innovative rapid cure polymer technology, enabling the cured membrane properties to be achieved rapidly without the use of catalysts or solvents. AQUA BLOK<sup>TM</sup> RAPID is a premixed, single component, elastomeric waterproofing membrane for use in internal and external applications under tiled finishes including shower recesses, bathrooms, laundries, decks, balconies and rooftops. AQUA BLOK<sup>TM</sup> RAPID is water based with low VOC's and forms a highly flexible, seamless waterproofing membrane with low water vapour transmission. It bonds to a wide variety of substrates and limits the transfer of substrate cracks to the finished overlay. AQUA BLOK<sup>TM</sup> RAPID contains micro fibre reinforcement which provides excellent tensile strength and elongation. AQUA BLOK<sup>TM</sup> RAPID may be recoated in 1 hour, tiled over after 4 hours and can be flood tested 12 hours after the final application. AQUA BLOK<sup>TM</sup> RAPID contains a biocide which provides resistance to the formation of mould and mildew when exposed to prolonged hot and humid environments.

### PRODUCT FEATURES

- Rapid curing-
  - › Recoat in 1 hour\*
  - › Tile after 4 hours after final coat\*
  - › Rain resistant after 4 hours drying\*
  - › Flood test after 12 hours after final coat\*
 (\*Based on ambient temperature of 23°C and 60% relative humidity)
- Highly flexible - Class III
- Micro fibre enhanced reinforcement
- Anti microbial protection
- Internal and external applications
- One part – No mixing, ready to use
- Water based - Low VOC's, Non hazardous
- Low water vapour transmission properties
- Compatible with CTA<sup>TM</sup> range of tile adhesives

### AREAS OF USE

- Concrete • Green screeds - Internal
- Sand / cement screeds • Cement render
- Fibrous cement sheeting
- Structural particle board sheeting
- Compressed fibrous cement sheeting
- Water resistant plasterboard
- Structural plywood sheeting

### SURFACE PREPARATION

#### General

Ensure that the surface is dry and clean. Remove any loose material and all contaminants such as grease, oil and dust prior to applying. Surfaces must be even and smooth, ensure that there are no undulations in the surface and any imperfections are repaired with a suitable mortar. Highly porous and dusty surfaces must be primed using ECO SYSTEMS<sup>TM</sup> ECO PRIME WB. Substrates that are damp or moist must be primed using AQUA BLOK<sup>TM</sup> MOISTURE SEAL. Dense and impervious substrates must be primed using ECO SYSTEMS<sup>TM</sup> ECO PREP "N" PRIME.

### SUBSTRATES / BACKGROUNDS

#### Concrete Floors

Allow at least 28 days for the concrete to cure. Concrete should be left with an open surface – standard helicopter finishes are generally acceptable if they display the "Moderate water absorption" in the substrate test. Wood float or broom finish is preferred where possible. All traces of curing compounds or sealers should be removed prior to application as these can act as release agents. Old concrete must be thoroughly cleaned and washed and allowed to dry. The surface should be even unless falls are incorporated where required.

## **Sand / Cement Screeds and Renders**

The screeds and / or renders must conform to the appropriate standard and should be left with a wood float finish and left to cure for at least 24 hours.

## **Sheet Walls**

Water resistant plasterboard and fibrous cement sheeting must be solidly fixed in accordance with the manufacturer's instructions specifically for tiling. Any surface dust must be removed by dry wiping. The area must be primed with ECO SYSTEMS™ ECO PRIME WB prior to waterproofing, priming is particularly recommended where a jointing compound has been used.

## **Compressed Fibrous Cement Sheeting**

Boards must be solidly fixed in accordance with manufacturer's instructions specifically for tiling. Any surface dust must be removed by dry wiping, the area must be primed with ECO SYSTEMS™ ECO PREP'N'PRIME prior to waterproofing.

## **Particleboard**

Particleboard must be totally clean, dry, sound and free from any movement and must be fixed in accordance with the manufacturer's instructions specifically for tiling. Secure floor with additional fixings and wedges as necessary. Any surface dust must be removed by dry wiping. In some circumstances the particleboard may need to be sanded prior to priming if any surface contamination is still present after initial preparation. The area must be primed with ECO SYSTEMS™ ECO PREP'N'PRIME prior to waterproofing.

## **Existing Tiles**

Any existing tiles must be well bonded and be free from any sealers or coatings. It may be necessary to mechanically prepare the area. Dense, low absorbent surfaces must be coated with ECO SYSTEMS™ ECO PREP'N'PRIME prior to waterproofing. Contact CTA™ for advice if further information is required.

**Static Crack Treatment** – For static cracks clean thoroughly and fill with AQUA BLOK™ Neutral cure silicone prior to application of AQUA BLOK™ RAPID. For dynamic cracks, expansion joints and control joints contact CTA™ for advice if further information is required.

**Sheet Joint Treatment** - For sheet joints clean thoroughly and fill with AQUA BLOK™ Neutral cure silicone to form a BondBreaker, apply a liberal coat of AQUA BLOK™ RAPID extending 100mm either side of the joint and place AQUA BLOK™ reinforcing bandage into the wet membrane, press down firmly to ensure good contact, apply another liberal coat of AQUA BLOK™ RAPID to the entire surface to embed the bandage.

## **BONDBREAKER**

AQUA BLOK™ RAPID is a class 111 membrane with high extensibility and is designed for use with a 12mm bond breaker to bridge joints opening up by 5mm. The bond breaker must be installed at wall/wall junction, wall/floor junction, sheet joints, penetrations and where there is a change in the direction or substrate. A bead of AQUA BLOK™ neutral cure silicone tooled off to 12mm minimum width or AQUA BLOK™ Elastojoint reinforcing bandage or both may be used as an effective bond breaker.

## **APPLICATION**

AQUA BLOK™ RAPID may be applied using a brush or roller. A minimum of 1mm dried film thickness of AQUA BLOK™ RAPID is required for optimum waterproofing properties. The surface onto which AQUA BLOK™ RAPID is applied must be continuous, AQUA BLOK™ RAPID cannot span gaps or voids. A minimum of two coats of AQUA BLOK™ RAPID is required, each coat must be applied in a perpendicular direction to the previous coat. The application must conform to Australian standards AS 3740, AS 4654 and relevant local building codes. Ensure there are no defects or damage to the waterproofing membrane, if necessary repair and rectify by applying a third coat.

## DRYING

AQUA BLOK™ RAPID is dry when the waterproofing membrane has changed colour to a uniform Cerise. Allow 1-2 hours between coats. Allow a minimum of 4 hours to dry prior to applying finished covering, and a minimum of 12 hours to dry before flood testing. Allow longer in adverse weather conditions.

## TILING

Compatible with a range of CTA™ polymer modified tile adhesives, Contact CTA™ for advice if further information is required.

## CLEANING

Tools and equipment can be washed using clean water before the material has dried.

## COVERAGE

**Floors** – Apply two coats to achieve a minimum dry film thickness of 1mm. 0.75lt/m<sup>2</sup> per coat.

**Walls** – Apply two coats to achieve a minimum dry film thickness of 0.6mm. 0.5lt/m<sup>2</sup> per coat.

Coverage will vary depending on substrate and application.

## STORING

When AQUABLOK™ RAPID is stored in its original unopened container in a dry area off the ground at a temperature of 23°C and a relative humidity of 60%, it should be usable for approximately 12 months. AQUA BLOK™ RAPID must be stored out of direct sunlight and away from heat.

## PACK SIZE

15 litre & 4 litre pails.

## HANDLING

CTA™ supports best practice in material handling: Gloves, mask and protective clothing should be worn. If the product comes into contact with the skin, wash off with warm soapy water. If swallowed drink plenty of water and seek medical advice. In case of contact with the eyes, rinse with an eye wash or wash away with plenty of clean water. For further information refer to product MATERIAL SAFETY DATASHEET.

## LIMITATIONS

- AQUA BLOK™ RAPID is not designed to stop a hydrostatic head of water pressure
- AQUA BLOK™ RAPID must not be applied over wet or contaminated substrates
- AQUA BLOK™ RAPID must not be applied if it is raining or if rain is imminent
- AQUA BLOK™ RAPID must not be applied directly over protective coatings
- AQUA BLOK™ RAPID must not be applied over the recommended coverage rate
- AQUA BLOK™ RAPID must not be used in areas of continuous immersion
- To eliminate possible surface contamination or damage, it is recommended that finished covering be applied as soon as the membrane has cured
- Timber flooring must be overlaid with fibrous cement sheeting prior to waterproofing.
- AQUA BLOK™ RAPID must not be exposed to UV light or used as a wearing surface for foot or vehicle traffic
- Do not apply where the surface temperature is below 10°C or greater than 35°C
- Do not allow the product to freeze
- Contact CTA™ for advice if further information is required

## WARRANTY

Construction Technologies Australia Pty Ltd (CTA™) warrants its products for a period of twelve (12) years from the date of sale. Visit [www.ctaust.com.au](http://www.ctaust.com.au) to view the full terms and conditions of this warranty.

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