



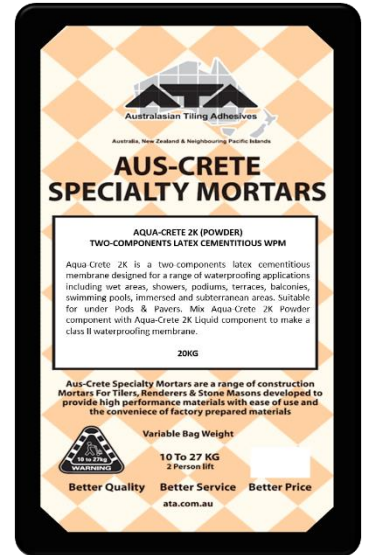
# TECHNICAL DATA SHEET

## AQUA-CRETE 2K WPM

**CLASS II CEMENTITIOUS 2 PARTS**

**WATERPOOF MEMBRANE**

**FOR COMMERCIAL INDUSTRIAL & RESIDENTIAL APPLICATIONS**



### SUITABLE FOR:

- INTERNAL WET AREAS
- BATHROOMS AND LAUNDRIES
- BALCONIES AND DECKS
- PODIUMS AND TERRACE FLOORS
- PARAPET AND FEATURE WALLS
- WATER FEATURES
- RETAINING WALLS
- PLANTERS AND UNDER PODS & PAVERS
- TILED AREAS TO PREVENT MOISTURE INGRESS

<b>Coverage</b>
1.5 – 2.0L / m <sup>2</sup> (2 coats)

**TEN YEAR WARRANTY**  
**AUSTRALIAN STANDARDS: Class II Performance**



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### TECHNICAL NOTES: AT 23°C

POT LIFE	1 HOUR
INITIAL SET	1.5 HOURS
FOOT TRAFFIC	24 HOURS @ 21°C

### TECHNICAL NOTES: AFTER 28 DAYS

TENSILE STRENGTH	≥ 1.00 MPA
ELONGATION AT BREAK	> 60% - CLASS 2
CRACK-BRIDGING at 23°C	≥ 2mm
TRANSVERSE DEFORMATION	≥ 20mm
GREATER PERFORMANCE	C2S2

### FEATURES & BENEFITS:

- WATER BASED AND FREE OF SOLVENTS
- NON-TOXIC AND NON-FLAMMABLE
- WATERPROOF WITHSTANDING CONTINUOUSLY WET AND IMMERSED ENVIRONMENTS
- EXCELLENT ADHESION TO SURFACES AND FAST CURING
- FLEXIBLE AND ACCOMODATING NORMAL SUBSTRATE MOVEMENT
- EXCELLENT BONDING PROPERTIES FOR RENDERS, SCREEDS AND TILE ADHESIVES
- DURABLE AND TOUGH
- CAN BE APPLIED BY BRUSH OR ROLLER ON HORIZONTAL AND VERTICAL SURFACES WITHOUT SAGGING
- LOW ODOUR AND FREE OF DANGEROUS FUMES IN WARM AND/OR CONFINED AREAS

**Compliant:** to AS4858:2004 and AS4654.1:2012 for use in internal and external applications

**Available cements:** Grey, POA for colours.

**Available packaging:** 20L Liquid Component & 40kg Powder Component



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## AQUA-CRETE 2K WPM

### Description:

**Aqua-Crete 2K WPM** is a two-component latex cementitious membrane designed for a range of waterproofing applications including wet areas, showers, podiums, terraces, balconies, immersed and subterranean areas. Suitable for under Pods & Pavers. Developed by advanced polymer technology, **Aqua-Crete 2K WPM** possesses fast drying and high adhesion properties. Suitable for use over a range of substrates, **Aqua-Crete 2K WPM** provides a unique durable membrane while maintaining flexible and permanent waterproofing properties. Outstanding bonding properties are achieved for the overlay of surface finishes including renders, screeds, and tile adhesives. Suitable for cool or humid environments to enable tiling after 24 hours. **Aqua-Crete 2K WPM** is compliant to AS/NZS 4858:2004 and AS4654.1:2012, satisfying the requirements of AS3740:2010 and AS4654.2:2012 for waterproofing to internal and external areas. making it a highly versatile membrane option for residential, commercial and industrial applications.

### Surface Preparation:

Surfaces must be prepared thoroughly before commencing application. All substrates must be structurally sound, smooth, stable, dry, and clean. Rough surfaces and voids to be evened or filled first and all brick/block surfaces to be pointed flush.

All general surface defects to be repaired. Building surfaces must be constructed to manufacturer's recommendations and relevant building standards in force at time of membrane application. All surfaces are to be free of sharp protruding objects, loose material, de-bonded coatings, curing membranes/agents, release agents, wax residues, foreign particles, laitance, algae and moss, grime, oils, animal fats or grease remains. Structurally unsound layers and surface contaminants are to be mechanically removed by abrasive blasting, blast tracking, grinding or equivalent methods.

**Aqua-Crete 2K WPM** can be applied directly onto clean sound masonry substrates, best to apply to damp masonry or onto primed surfaces:

**ATA primer** – for general porous vertical and horizontal building surfaces. Brush or roller apply primer to total surface area at a minimum coverage of 1 litre per 6m<sup>2</sup> and allow drying for 30 minutes or once wet film dries to a clear transparent coating.

**ATA Ultra Prime** – for non-porous, smooth and dense surfaces. Brush or roller apply primer to total surface area at a minimum coverage of 1 litre per 10m<sup>2</sup> and allow to dry for 1 hour

Static cracks up to 1mm: Filled with **ATA mortar**, followed by **ATA Aqua-Band** reinforcement bandage. Live cracks and cracks >1mm: Filled with **ATA mortar** followed by **Aqua-Band** or **Aqua-Stick** Joint Band/Bond Breaker: **Aqua-Band** or **Aqua-Stick** Joint Band to wall/floor junctions and wall/wall junctions. Movement or Expansion Joints: **Consult ATA for further details:**



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## AQUA-CRETE 2K WPM

**Notes:** It is recommended before commencing the application; that adhesion of products to be used (e.g. primers, membranes, coatings adhesives etc) is tested over a typical area of the prepared surface to ensure satisfactory adhesion. It is the responsibility of the applicator to carry this out and accept the substrate suitability before any application starts. For further details contact ATA.

Details contained in product data sheets are general. For any situation or items not covered in this data sheet, it is the responsibility of the applicator to check with ATA Technical Services before commencing the application.

**Product Disclaimer** This Product Data Sheet (PDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this PDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. **ATA** does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.

### **Mixing:**

**Aqua-Crete 2K WPM** consists of a 20 litres liquid component and a 40kg dry powder component. When mixing, slowly add the dry powder component to the liquid, ensuring the mixing of components is continuous while the powder is added. Using an electric/mechanical stirrer with a paddle attachment at a slow-medium speed, mix the dry component until it is evenly dispersed into the liquid and lump free. Allow the mix to settle for 3-5 minutes then re-stir before use. Pot life once mixed is 30-45 minutes; however, this may be reduced in warmer weather.

- **Roller application:**

Mix 14kg of Aqua-Crete 2K WPM powder component with approximately 10L of Aqua-Crete 2K WPM liquid component, 1L liquid component for every 1.4kg powder component.

- **Brush or trowel application:**

Mix 16kg of Aqua-Crete 2K WPM powder component with approximately 10L of Aqua-Crete 2K WPM liquid component, 1L liquid component for every 1.6kg powder component.



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### Application and Coverage:

Where applicable the application of **Aqua-Crete 2K WPM** must comply with the following standards: AS3740- 2010 - Waterproofing of wet areas within residential areas AS4654.2 2012- Waterproofing membrane systems for exterior use – above ground level Product is to be applied in a minimum of 2 coats at a total minimum coverage of 1.5 litres/m<sup>2</sup>; forming a minimum dried film thickness of approximately 1.2mm. For immersed applications product is to be applied at a total minimum coverage of 2 litres/m<sup>2</sup>; forming a minimum dried film thickness of approximately 1.5mm. Apply subsequent coats at different directions to the previous coat. Minimum Thickness for use under Pods & Pavers is 2mm. Coverage is dependent upon surface condition and will vary accordingly as uneven and porous surfaces will require greater coverage to achieve the specified film thickness. Product can be applied by medium nap roller or brush. **Aqua-Crete 2K WPM** can be trowel applied.

Installing **Aqua-Band** Bond Breaker/Joint Bandage. Measure and cut **Aqua-Band** Joint Band for all wall/floor junction areas. Apply first coat of **Aqua-Crete 2K WPM** to extending 150mm up walls and on to floors and embed **Aqua-Band** Joint Band into wet bed of liquid membrane, ensuring fabric edges are fully wet out and no air bubbles exist behind the fabric. At sections where Joint Band is to be joined, a minimum 50mm overlap is required. Aqua-Band Prefabricated Corners are available for both internal (90°) and external (270°) junctions, enabling Joint Band to overlap and avoid joint at critical areas.

Sealing floor wastes and penetrations for floor pipes protruding floors, **Aqua-Band** Collars are to be fitted over the neck of the pipe, embedding fabric edges into wet bed of **Aqua-Crete 2K WPM**. For sealing penetrations where **Aqua-Band** product cannot be used, seal around base of penetration at abutment to substrate using **suitable** sealant followed **Aqua-Fab** turned up the penetration and embedded into membrane. For floor wastes that are finished level with the floor, the **Aqua-Crete 2K WPM** with **ATA** Fabric embedded is to be dressed down into the waste outlet at a minimum 50mm ensuring the perimeter of the pipe/substrate abutment is sealed. For leak control flanges apply compatible sealant around edges of flange at interface with floor substrate. **Aqua-Crete 2K WPM** with **ATA-Fab** embedded is to be applied over edges of flange at floor substrate abutment until total perimeter is sealed. Return the membrane down into flange.

For alternative sealing option use Aqua-Stick. When the detailing application has been completed apply **Aqua-Crete 2K WPM** to the total floor area and to wall areas as required. A continuous seamless membrane should be the final finish to the total area upon completion of the waterproofing membrane application.

**Tiling & Surface Toppings:** When tiling directly over **Aqua-Crete 2K WPM** in internal or external floor areas, polymer modified cement-based adhesives must be used. If applying a screed, render or



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concrete topping over **Aqua-Crete 2K WPM** it is recommended to incorporate **ATA Aus-Bond Latex Admix/ Cement** as a proprietary bonding agent and water-resistant additive. Alternatively see **ATA** polymer enhanced screed. For use of other adhesives over **Aqua-Crete 2K WPM** contact the technical department of **ATA** for detail of compatibility. Pre-mixed tile adhesives are not recommended for use over **Aqua-Crete 2K WPM**. Drying time before tiling is 24 hours. Note: All tiling is to be carried out to AS3958.1 – 2007 “A Guide to The Installation of Ceramic Tiles” Storage conditions \* Best stored at room temperature. \* Avoid cold freezing conditions and off concrete floors. \* Do not store in direct sunlight. \* Shelf life: Liquid component is 12 months in unopened container; powder component is 12 months in unopened packaging. Packaging \* Liquid Component – 20 litres (in a 20 litre pail); \* Dry Powder Component – 20kg bag Precautions \* Not to be used as a trafficable surface \* Do not apply to areas when rain is imminent \* Do not apply when surface temperature is below 5°C or above 30°C \* Not to be applied over glass or glazed surfaces \* Not designed as a sealant for expansion or control joints \* Not to be used in areas where solvent or petroleum based products may be spilled \* Not to be used in areas subject to negative hydrostatic pressure \* All finish coatings over this membrane must be water based and solvent free \* Allow minimum 72 hours drying after final application if treated area is to be flood tested \* Safety Data sheet (SDS) available \* For further information, contact ATA Tech Department \*

### **Substrates suitable for bonding Aqua-Crete 2K WPM over include:**

- CONCRETE, RENDER AND MANSORRY
- FIBRE CEMENT SHEETING, PLASTERBOARD AND STRUCTUAL SHEETING
- AERATED CONCRETE PANELS AND BLOCKS
- USE AQUA-BAND PREFABRICATED CORNERS AND JOINTING OVER ALL JOINTS IN SHEETING

**Drain outlets:** **Aqua-Band** Collars or **ATA** Reinforcement where collars cannot be utilised Butyl Squares over leak control flanges.

**Pod and Pavers:** When using **Aqua-Crete 2K WPM** under Pods & Pavers Install **Aqua-Crete 2K WPM** to a minimum thickness of 2mm.

**Clean up:** Cleans in water while wet. Once dried product needs to be removed mechanically.

**Technical Data:** Appearance, Liquid – white; Dry-Powder, light grey



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**Drying Based** on normal ambient temperatures of 23°C and 50% RH. Temperature, humidity and porosity will vary dry times. Tack Free in 1-2 hours. Re-coat in 2-4 hours. Tiling or toppings can be installed in 24 hours. Flood test in 72 hours. Full Cure for Immersion: 21 days.

**For use over single layer external sheeting on lightweight constructions consult ATA for technical support.** For further information on suitable surfaces and substrates contact technical department of ATA for correct advice on surface preparation and suitability.

### Warranty:

“Australasian Tiling Adhesives Pty Ltd (“ATA”) warrants that **Aqua-Crete 2K** (“the goods”) will be free of defects for a period of up to **Ten Years** from date of installation, subject to the goods being utilised and installed strictly in accordance with Australian Standards and industry guidelines. The use of the goods is beyond the control of ATA and/or the supplier and the liability of ATA under this warranty is restricted only to the replacement of the material found to be defective. Structural failure of the substrate is not covered by this warranty and the manufacturer and/or supplier of the goods will not be liable for any damage whatsoever arising from the incorrect use of the goods. A warranty claim must be made in writing by email to [[admin@ata.com.au](mailto:admin@ata.com.au)] by you within seven days of becoming aware of the defect. Proof of purchase by you, the date of purchase, and evidence of who installed the product, with relevant contact details, must accompany all claims. In the event of a dispute arising in relation to a claimed defect, ATA reserves the right to engage an independent expert to investigate and report, and the cost of the expert will be borne by the party at fault. The benefits to you given by this warranty are in addition to other rights and remedies you may have under any law in relation to the goods to which the warranty relates. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods replaced or repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.”

### Contact Details:

**Australasian Tiling Adhesives Pty Ltd (ATA), ABN: 92 154 228 207, ACN: 154 228 207, Mobile: 0448 404 333, Email: [admin@ata.com.au](mailto:admin@ata.com.au) , Web: [ata.com.au](http://ata.com.au)**