

## TECHNICAL DATA SHEET

### DELTA TANK 2K - CEMENTITIOUS MEMBRANE

#### PRODUCT DESCRIPTION

DELTA TANK 2K is a fast drying two component cementitious waterproofing membrane that is suitable for a wide range of waterproofing applications. When mixed it forms a slurry that can be brushed or roll applied, providing a strong, hydrostatic pressure resistant, flexible waterproofing membrane.

DELTA TANK 2K displays outstanding adhesion properties over numerous building substrates including concrete, masonry, renders, cement sheeting, cement based compounds and plaster board surfaces. DELTA TANK 2K also offers excellent surface adhesion properties for typical overlaid finishes such as renders, screeds and tile adhesives. DELTA TANK 2K meets the requirements of:

- AS/NZS 4858:2004 *Wet Area Membranes as a Class I membrane*
- AS4020:2005 *Products for Use in Contact With Drinking Water*

#### PRODUCT FEATURES

- Handles ponding and permanently wet conditions, will not re-emulsify
- Flexible with good elongation properties
- Can be applied on vertical and horizontal surfaces, excellent non-sag properties
- Solvent free, non-hazardous, very low VOC level
- Compatible bonding with tile adhesives, screeds and masonry renders (with bonding additives).
- Suitable for internal and external surfaces.
- Designed for applications where hydrostatic pressure resistance is required.
- Fast drying.
- Can be applied to damp surface.



#### TYPICAL APPLICATIONS

- Under tile waterproofing on Podiums, terraces, balconies and deck areas - Class 1 membrane
- Retaining walls, planter boxes.

Also suitable for immersed and subterranean areas requiring hydrostatic pressure resistance and immersed applications such as:

- Water tanks and general water storage areas
- Water features, swimming pools and fish ponds
- Planter boxes, garden beds and retaining walls
- Water retaining structures such as concrete tanks, ponds, pools, fountains and water features.

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

*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. DELTA Construction Industries 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.*

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## IMPORTANT NOTES

- Pot life for the mixed membrane is approx. 50 - 60 minutes at normal ambient conditions of 23<sup>o</sup>C.
- Polymer modified cement based tile adhesives are recommended for direct adhesion to the membrane.
- Acrylic or SBR bonding agents are recommended for applications of screeds and renders directly over the membrane.
- Best storage conditions for liquid and dry components are in a dry area at room temperature, avoiding humidity and frost.
- Product while in a wet state will clean up with water. Once dried product will need to be removed by mechanical means or with solvent cleaners.
- Cracks and gaps must be independently sealed and waterproofed before applying Delta Tank 2K
- Chlorine is a strong oxidizing agent; high concentrations can degrade the membrane. Care should be taken to ensure correct chlorine dosage is maintained in swimming pools.

## GENERAL APPLICATION DETAILS

- Surfaces must be clean, suitably prepared and in a sound state prior to beginning the application. Substrates are recommended to be primed before applying the membrane. There are a range of DELTA primers are suitable for a variety of substrates and applications, please refer to recommended Primers.
- As an internal and external wet area membrane DELTA TANK 2K requires a suitable bond breaker on all substrate junctions. Detailing Tape is recommended to be used or equivalent bond breaking methods compliant with local waterproofing standards and building recommendations.
- DELTA TANK 2K membrane is formed by mixing 1kg of Part A liquid to 2.0kg of Part B dry. An electric stirrer and paddle is recommended to be used to ensure a homogenous state is formed. Starting with a slow mixing speed, the powder component should be slowly added to the liquid, increasing the mixing speed as the powder addition increases. Mixing should continue until product is consistent and lump free, then allow product to settle for a few minutes before re-stirring lightly. Product will then be ready to use.
- A minimum of 2 coats is recommended to be applied, at a minimum coverage of 1L/m<sup>2</sup> for general wet area applications. It is recommended that 3 coats be applied for immersed and subterranean applications.
- Product can be applied by brush or roller; however, first coat should be brush applied ensuring the membrane is brushed into any coarse, textured surface or small cavities. Second coat can be applied with roller.

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**DRYING TIMES:**

- Recoat: 2-4 hours
- Sets: 5-7 hours
- Dry / cure: 12- 24 hours.
- Water Pressure 7 days
- Immersion: 10 days

*Drying: Based on normal ambient temperatures of 23°C and 50% RH, Temperature, humidity and porosity will vary dry times. High humidity in confined spaces e.g. tanks, will extend the dry times. Increase ventilation (fan) to reduce drying times.*

**GENERAL TECHNICAL DATA**

- Specific gravity of mixed product: 1.38kg/litre
- Appearance: liquid: white; Powder: Grey  
Mixed - Dark grey
- Potlife: 50 – 60 Mins
- Elongation: 230%
- Tensile Strength: 1.0MPa
- Adhesion to concrete (primed): 1.6MPa
- Shore A hardness: 80A
- Water pressure: 8 bar (positive)  
2 bar (negative)

**RECOMMENDED PRIMERS**

Following Primers may be used prior to applying Delta Tank 2K:

Deltaprime LPA – Latex Primer / Additive

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

Deltaprime MSP – Multi Surface Primer

For non-porous, smooth and dense surfaces. Brush or roller apply primer to total surface area at a minimum coverage of 1L/12m<sup>2</sup> and allow drying for 1 hour. Also suitable for smooth concrete.

Deltaprime MBE – Moisture Barrier Epoxy

For concrete rooftop applications and general surfaces subject to rising damp. Coverage of 1L/3m<sup>2</sup> per coat. Allow to dry for a minimum 24 hours before applying membrane. Primer must be tack free before applying membrane.

Delta Tank 2K may be applied directly to pre-dampened cementitious substrates. This method however, does not provide hydrostatic or moisture vapour protection.

*Note: Refer to relevant Primer data sheets for additional information.*

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## COVERAGE

Retaining walls, ponds, roofs, concrete slabs fountains\*:

Apply a minimum of two coats to give at least 1.5mm DFT .... 2 coats of 1L/m<sup>2</sup>

Tanks\*: Apply a minimum of three coats to give at least 2 – 2.5mm DFT...3 coats of 1L/m<sup>2</sup>

Swimming Pools\*: Apply a minimum of three coats to give a dry film thickness is at least 2.5mm. The membrane should be suitably rendered with a suitable bonding agent incorporated in the render/screed then tiled with a tile adhesive designed for pool immersion.

*\*Coverage rate/s may vary depending on application technique, surface porosity and texture.*

## PACKAGING

Liquid: 10L supplied in 10L polypropylene pail

Bag: 20 kg powder supplied in 20L polypropylene pail

## CLEANING

Clean surfaces, tools etc. with water or soapy water while in a wet state.

## STORAGE CONDITIONS

Store at room temperature

Avoid storing on direct concrete floor in freezing conditions

12 month shelf life (unopened)

Avoid storing in direct sunlight

## HEALTH & SAFETY

The product is non-toxic but good hygiene and industrial practices should always be employed. Refer to the relevant Safety Data Sheet (**SDS**) available.

**DELTA Construction Chemicals**

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