

TECHNICAL DATA SHEET

POLYURETHANE HYBRID MEMBRANE - UV

PRODUCT DESCRIPTION

Delta 500 UV is a high performance; fibre enhanced membrane suitable for a wide range of under tile and exposed membrane applications. Developed using advanced hybrid polyurethane technology, Delta 500 UV offers superior elastomeric and flexible properties while maintaining high tensile strength with outstanding waterproofing properties and low water vapour transmission. Delta 500 UV is capable of withstanding early water ponding and permanently wet conditions without re-emulsification.

Possessing excellent UV resistance and anti-fungal properties for the protection of external substrates against UV degradation and general exposure, or under for covered applications enabling direct adhesion of overlaid finishes including tiles, screeds and render.

Delta 500 UV meets the requirements of:

- AS/NZS 4858:2004 *Wet Area Membranes as a Class III membrane*
- AS 4654.1 2012: Waterproofing membranes for external above ground use – exposed/non-exposed.

PRODUCT FEATURES

- Highly flexible and elastomeric
- Low vapour transmission properties and low water absorption
- Excellent adhesion properties
- Outstanding weather resistant properties
- Excellent early ponding water resistance.
- Once cured will not re-emulsify, handles permanently wet conditions
- Resistant to fungi, algae and low dirt retention
- Light foot trafficable
- Solvent free, non-hazardous



APPLICATIONS

- Roofs and parapets as an exposed membrane finish
- Roofs to be covered over with screeds and toppings
- External surfaces exposed to constant weather and exposure
- Internal wet areas, bathrooms, laundries and tiled areas
- Balconies, decks, podiums, terrace floors

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.

GENERAL APPLICATION DETAILS

- Surfaces must be clean, dry, 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 suitable for a variety of substrates and applications.
- A suitable bond breaker must be used at all substrate junctions and movement joints. Ensure compliance with local waterproofing standards and building recommendations
- Delta 500 UV membrane should be lightly stirred before using, and can be applied to both vertical or horizontal surfaces using a medium nap roller or brush

COVERAGE

A minimum of 2 coats is recommended to be applied at a total minimum coverage of 1.5 litres/m². No less than 1mm Dry film thickness is recommended for horizontal applications.

GENERAL TECHNICAL DATA

Dry Times

Tack Free:	1-2 hours
Re-coat:	2-4 hours
Dry film:	24 hours
Tiling or toppings over:	24-48 hours
Weatherproof Vertical:	24 hours
Weatherproof Horizontal:	48 hours

Based on normal ambient temperatures of 23°C and 50% RH

*Temperature, humidity and porosity will vary dry times.

Physical Properties

Appearance:	Highly viscous
Specific gravity of mixed product:	1.3kg/litre
Solids content:	>60%
Elongation:	>400%
Tensile Strength:	1.8MPa
Water vapour transmission:	0.7g/24h/m ²
Shore A hardness:	60
Accelerated Weathering (1000 hours Arc tests)	No Effect*

*No changes to physical appearance or properties.

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RECOMMENDED PRIMERS

Delta 500 UV must be applied onto primed surfaces:

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/6m² and allow drying for 30 minutes or once wet film dries to a clear transparent coating.

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/12m² and allow drying for 1 hour.

Deltaprime MBE – Moisture Barrier Epoxy

For concrete rooftop applications and general surfaces subject to rising damp. Coverage of 1L/3m² per coat. Allow to dry for a minimum 24 hours before applying membrane. Primer must be tack free before applying membrane.

Note: Refer to relevant data sheets for additional information.

IMPORTANT NOTES

- Do not apply to areas when rain is imminent
- Do not apply when temperature is below 5°C or above 30°C
- Not to be used in areas subject to negative hydrostatic pressure
- All finish coatings over this membrane must be solvent free
- 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 condition is 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.

PACKAGING

Available in 15L polypropylene pails

CLEANING

Use water if membrane is still wet. Use solvent or mechanical means if membrane has dried.

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DELTA 500 UV



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

ABN: 16 633 007 995, Telephone: +61 (2) 8605 9707,

Email: enquiries@deltacc.com.au

Website: www.deltacc.com.au

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