

TECHNICAL DATASHEET**DELTABLOC PU500 2K HIGH PERFORMANCE GRADE POLYURETHANE****DESCRIPTION**

DELTABLOC PU500 2K is a high performance, self-levelling hand-applied, >99% VOC-free, quick curing two-pack elastomeric polyurethane waterproofing membrane. DELTABLOC PU500 2K is ideal for horizontal surfaces when a nice foot trafficable finish is required.

TYPICAL APPLICATIONS

It is designed for waterproofing diverse parts of a building including:

- Balconies
- Terraces
- Podium
- Decks
- Wet areas
- Rooftops
- Root penetration resistant membrane

**PRODUCT FEATURES**

- Monolithic membrane – no lap, weld or seams
- >99% VOC-free, complies with Green Star requirements
- UV resistant (however will fade when exposed to UV)
- Quick tack-free surface
- High resistance to puncture
- High resistance to stagnant water
- High elongation, >300%
- No reinforcement required
- Excellent crack bridging capability
- Elastomeric behaviour: remains flexible at low temperatures
- Available in grey
- Fast cure rate
- Root resistant membrane, ideal for green roofs

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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GENERAL TECHNICAL DATA

Properties presented below are to be used as a guide and not intended for specification purposes.

Density (g/cm ³)	1.1	ASTM D1475-13
Service Temperature (°C)	-20 to +80	-
Mix Ratio (W/W)	100:23	
Curing time (hours)	3 – 5 Hours	-
Pot Life (mins)	25-35 mins @ 25°C	
Shelf life (months)	12	-
VOC content (g/L)	99% VOC Free	ASTM D2369-10
Tensile Strength (MPa)	5.8	AS 1683.11
Elongation (%)	>310 (Class III AS4858)	AS 1683.11
Hardness (Shore A)	85	AS 1683.15.2
Angle Tear Strength (kN/m)	31	AS 1683.12
UV resistance	Very Good (will discolour)	-
Re-coating interval (hrs)	Min 5 hrs Max 24 hrs after application	-
Recommended substrate temperature (°C)	+5 to +35*	-
Recommended substrate moisture (%)	Up to 5	-
Recommended relative humidity (%)	Between 20 and 90	-

*Due to viscosity increase in winter, Delta PU500 2K 'part A' should not be mixed with 'part B' if product temperature drops below 10°C. Recommend heating 'part A' above 10 – 15°C to facilitate mixing with 'part B'

APPLICATION

DELTABLOC PU500 2K is supplied in pre-weighed kits.

Preparation:

Surface must be clean, sound, smooth and dust-free as well as oil-free.

A compatible primer, such as DELTAPRIME MBE should be applied to ensure the adhesion of the membrane to the substrate as well as preventing outgassing from the concrete.

In the case of high porosity, wet concrete (humidity >5%) or in any doubt, it is recommended to use DELTA PRIME MBE (Moisture Barrier Epoxy).

Mixing:

DeltaBloc PU500 2K Part B must be mixed thoroughly for at least 2-3 minutes using a paint mixer at 300 -400RPM. Once mixed pour part B into part A and mix both components for a further 3 minutes at 300-400 rpm. An excess of mixing will generate aeration within the membrane.

DeltaBloc PU500 2K can be applied with a brush, roller or a notched trowel to the desired thickness. A spike roller can be used to eliminate air bubbles if required.

DeltaBloc PU500 2K can be applied between 0.5 and 3 mm thick. Subject to light traffic after 24 hours. Vehicular traffic is not permitted on Delta-Bloc PU500 2K without the application of a top coat. Contact Delta Construction Chemicals representative for suitable top coats.

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RECOAT

Under normal conditions, DeltaBloc PU500 2K can be recoated with another layer of DeltaBloc PU500 2K after 5 hours and within 24 hours. In the event of rain or if the recoating window of 24hrs was exceeded, cut back to the substrate by grinding.

PACKAGING

DeltaBloc PU500 2K is available in 17.3kg kit (14kg Part A and 3.3kg Part B). Supplied in metal pails.

COVERAGE

1 coat of 1L/m² is required to achieve a 1 mm dry film thickness.

Product	Thickness	Coverage
1 x 17.3kg kit DeltaBloc PU500 2K	1mm DFT	17m ²
1 x 17.3kg kit DeltaBloc PU500 2K	1.5mm DFT	11.3m ²
1 x 17.3kg kit DeltaBloc PU500 2K	2.0mm DFT	8.5m ²

CLEAN-UP

Reusable tools should be cleaned carefully with Xylene or MEK before curing.

SHELF LIFE

Shelf life of sealed DeltaBloc PU500 2K in its original container is 12 months.

STORAGE CONDITIONS

Always store closed containers in cool, ventilated and dry location, away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 10°C or above 35°C.

SAFETY

Please refer to the Material Safety Data Sheet (SDS) for personal protection, proper handling and storage.

DELTA Construction Chemicals

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

Email: enquiries@deltacc.com.au

Website: www.deltacc.com.au

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