

TECHNICAL DATASHEET

DELTA-BLOC PU500 STD GRADE POLYURETHANE

DESCRIPTION

DELTABLOC PU500 STD is a hand-applied, low VOC, moisture-curing single-pack elastomeric polyurethane waterproofing membrane. DELTABLOC PU500 STD can be applied on horizontal and vertical applications. AS4858:2004 Wet Area Membranes and AS4654.2 Exterior, for non UV exposed applications. DELTABLOC PU500 STD is designed to waterproof most non-exposed applications within the building and construction industry.

TYPICAL APPLICATIONS

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

- Balconies
- Terraces
- Podium
- Decks
- Wet areas
- Rooftops.
- Retaining Walls
- Shower recess & wet areas (floors and upturns)



PRODUCT FEATURES

- Monolithic membrane – no lap, weld or seams
- Low VOC, complies with Green Star requirements
- High resistance to fouling
- High resistance to stagnant water
- High elongation, >500%
- No reinforcement required
- Excellent crack bridging capability
- Elastomeric behaviour: remains flexible at low temperatures
- Single-pack: no mixing, ready to use
- Available in grey

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 (Liquid) (g/cm ³)	1.25 – 1.35	ASTM D1475-13
Service Temperature (°C)	-20 to +80	-
Curing time (hours)	12 (approx.)	-
Shelf life (months)	9	-
VOC content (g/L)	<250	ASTM D2369-10
Tensile Strength (MPa)	3.8	AS 1683.11
Elongation (%)	>450 (Class III)	AS 1683.11
Hardness (Shore A)	53	AS 1683.15.2
Re-coating interval (days)	Maximum 2 days after application	-
Recommended substrate temperature (°C)	+5 to +35	-
Recommended substrate moisture (%)	Up to 5	-
Recommended relative humidity (%)	Between 20 and 90	-

GENERAL APPLICATION DETAILS

SURFACE PREPARATION:

Surface must be clean, sound, smooth and dust-free as well as oil-free. Dust, loose or flaking material will affect adhesion of the membrane.

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).

DELTA PRIME PU (solvent based primer) can also be used. Porous or dusty surfaces may require an additional coat of primer.

APPLICATION

DELTABLOC PU500 STD can be applied with a brush or a roller to the desired thickness.

2 coats of 1L /m² are required to achieve a dry film thickness (DFT) of 1.5 mm.

Application temperature of Deltabloc PU500 STD is >5°C to 35°C.

Deltabloc PU500 STD can be subject to light foot traffic after 24 hours.

Where UV resistance is required, it is recommended that Deltabloc PU500 STD be coated with DeltaBloc UV Top Coat.

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RECOAT

In normal conditions, Deltabloc PU500 STD can be recoated with another layer of Deltabloc PU500 STD after one night and within 2 days. Exceeding 2 day recoat interval may result in adhesion failures.

COVERAGE

2 coats of a minimum of 1L/m² each are required to achieve a 1.2 mm dry film thickness (DFT).

CLEANING

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

PACKAGING

Available in 15L metal pails.

SHELF LIFE

Shelf life of sealed Deltabloc PU500 STD in its original container is 9 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 5°C or above 35°C.

HEALTH & SAFETY

Please refer to the Material Safety Data Sheet (MSDS) for personal protection, proper handling and storage. Keep away from naked flame. Use only with adequate ventilation.

DELTA Construction Chemicals

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