DUROTECH

Technical Data Sheet

DURO MASTIC™ TANK 600

DOUBLE CROSSLINKED COPOLYMER MEMBRANE FOR POND WATERPROOFING

AS4858:2004 compliant - CLASS III

DESCRIPTION:

DURO MASTIC™ TANK 600is a liquid membrane product based on a unique double crosslinked copolymer system. The product is water based yet offers strong water resistance. The cured membrane has exceptional flex and elasticity for good crack-bridging properties while at the same time maintaining good tensile film strength. TANK 600 has excellent resistance to UV, colour fade and chalking. TANK 600 is easily maintained, recoated and re-paired. The water content is low which enables fast drying, and thick films to be built up quickly. The product is supplied as a thyrotrophic liquid, which is easily applied to both vertical and horizontal surfaces. It complies fully with the test requirements of AS:4858-2004 "Wet Area Membranes" and passes at Class III, the highest level in the Australian standard. TANK 600is applied as part of a system with primer Duromix Hibuild WBE.

Principle Characteristics:

- Single component, water-based
- Excellent water resistance
- UV resistant
- High solids
- Ease of application – roller/brush
- Good adhesion
- High elongation
- Non=hazardous, low odour
- Does not bleed, non-staining
- LOW VOC & Green Building Council Compliant

USE AREAS:

- Water features
- Ponds
- Fountains & bird baths
- Tanking

Packing:

15 Litres

Technical Information:

Colour	Black, (Blue and other colours on request)
Weather Resistance	Excellent, pass +1000hrs QUV Weatherometer, 2000 hrs UVa
Dry Time	2 – 4 hours @ 25^{0}C, 50%R.H.
Recoat Time	4-6 hours @ 25^{0}C, 50% R.H.
Coverage	Total 2.0 litre/m² min. Apply as 2 or more coats, each coat at 1.0 litre/m²
Dry film Thickness	1.2 mm minimum
Elongation	+ 600% @25^{0}C
Tensile strength	1.4MPa @ 25^{0}C
Solids content	60% by volume
Shelf Life	8 months in unopened containers @ 20^{0}C
VOC	9.0 g/L Green Building Council Compliant

Conditions:

Within ponds and tanks under construction, the air and surfaces tend to be colder and more damp than surrounds. This and the fact that the air is not moving much will slow drying and curing, especially in cooler or wetter months. It is essential to allow time for the primer and TANK 600 to dry thoroughly between coats. In winter & autumn, application in the warmest part of the day is recommended. Drying can be accelerated by fans or heaters. Do not apply Hibuild WBE primer or TANK 600 below 10ºC ambient. Do not apply TANK 600above 30°C. Do not apply during wet weather conditions, or if rain is likely.

Surface Preparation:

Good surface preparation is essential for optimum performance. Ensure water features, ponds and tanks are structurally sound and free of cracks. In below grade locations with a high water table, it is recommended to waterproof the positive (earth) side of any block work construction) with Duroproof PU Black or Duromastic BLW. This will reduce seepage of water and salts to the inside surface where the primer will later be applied.

Block work construction must be prepared so that the cavities are completely filled, all mortar joints are filled and flush and the surface is as smooth as possible, i.e. free of sharp edges, pits, gaps, grit and mortar residues. Preferred is 20mm to 30mm of sand and cement render over the block work. Remove all dust, loose particles, contaminants and curing compounds. If necessary water-blast unsound or powdery concrete surfaces. Concrete must have a minimum strength of 20MPa and be cured a minimum of 28 days. It is best if the surfaces are dry as possible before priming. Slight dampness may be tolerated initially, provided the primer can thoroughly dry after application. Before applying Hibuild WBE primer and DUROPOND, any problems from rising damp, continual wetness or hydrostatic pressure must be remedied.

PRIMING & DETAILING:

Prime the interior with 2 coats of Duromix Hibuild WBE as detailed in the product's technical data sheet. It is essential that the application of the primer is carried out correctly. For block work or porous surfaces dilute the mixed Hibuild WBE with water up to 10% and 'work' the product into the surface so that all pores and pinholes are filled and sealed. Apply a further one to two undiluted coats until no pin-holes are visible and an even solid coat is formed. Allow the final coat of primer to dry thoroughly, i.e. at least 24 hours in summer and up to 72 hours in cool to cold conditions. Next, apply Durotech Fast Cure PU Sealant at all horizontal and vertical junctions such as floor to wall, and wall to wall.

Apply a neat smooth fillet about 12mm by 12mm. Remove all sealant residues and overhangs. The sealant can be coated after a good skin has formed (approx. 1 hour).

Application:

Ensure that the primer is thoroughly dry and cured. Apply TANK 600 by brush or roller in at least two or more coats to achieve a total minimum dry film thickness of 1.2 mm. Do not apply in one thick coat. In cold conditions, it may be best top apply as 3 thin coats or accelerate drying by fans or heaters. Allow to dry as long as possible between coats, then check for pinholes and thin areas, and recoat if necessary. If the membrane becomes dirty or damaged between coats, clean with water and recoat. Spills and tools should be cleaned with water before Duromastic Tank 600 has dried.

Maintenance:

Coating maintenance is based on regular inspection and then timely repair of any damage and deterioration by thorough cleaning using a little sugar soap and water, followed by thorough rinsing. When dry, apply Duromastic Tank 600.

HEALTH & SAFETY Refer Durotech MSDS prior to use.

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The information provided in this data sheet is correct at the time of printing (albeit is subject to change at any time) and is intended to give a simple description of the product and its capabilities. In practice, the substrate, intended surface to be treated and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and to ensure that the product is not used beyond its physical limitations. If in doubt contact the manufacturer. The product will perform as described herein provided it is applied in accordance with the manufacturer's instructions as stated in this data sheet and provided that the building and installation is structurally sound and the application is carried out competently. Durotech terms and conditions of sale apply.