PRODUCT DATA SHEET

MULTITHANE Std

POLYURETHANE WATERPROOF MEMBRANE

Description

Duram Multithane Std is a coloured (light grey) elastomeric, single pack, cross-linking, moisture curing, high tensile strength, flexible polyurethane waterproofing membrane.

Multithane Std cures to form a tough, flexible, seamless waterproof membrane that bonds firmly to most substrates (preferably primed) and is capable of withstanding normal structural and thermal movement and hydrostatic pressure.

Advantages & Benefits

Multithane Std represents the highest standards in waterproofing technology and incorporates the following benefits:

- Fast Curing - usually within 24 hours.
- Can be tiled usually after 24 hours.
- Permanently flexible. (Flexibility + 500%)
- Suitable for long term immersion in water.
- Compatible with common two pack (resin/cement) tile adhesives, with sand embedded into the top coat of Multithane Std.
- It will not stain grout or tiles.
- High strength and puncture resistant.
- Available in horizontal and vertical (low sag) grades.
- Resistant to a wide range of pollutants, chemicals and detergents (excluding caustic and corrosive elements).
- Almost odourless when cured.
- Formulated for long-term waterproof protection.
- Short-term UV exposure capability.
- Easy to apply -suitable for wide range of applications.
- Tar Free.
- High hydrostatic pressure resistant.
- Can be used without primer on suitable, low moisture content substrates.
- Available in other colours. Minimum quantities apply.

Uses

Multithane Std is ideal to waterproof most applications within the building and construction industry including:

- Shower recesses and other wet areas (floors and upturns only).
- Decks, terraces, balconies (to be tiled or topped).
- Retaining walls.
- Planter boxes.
- Structural slabs.
- Water retaining structures.
- Tanks.
- Roofs with tiles or topping over the membrane.
- Lift pits
- And more...

NB. This data sheet does not constitute a full specification as site conditions and requirements vary. Confirmation of suitability and specification should be sought from the Company regarding specific projects.

Substrates

Multithane is suitable for use on most substrates, usually primed, including concrete, masonry, brick, cement render or cement topping, fibre-cement board, plaster board, timber and etch-primed metal. Substrates must be sound, gap free, clean, and free of oil, grease, anti-rust treatments and loose or friable matter.

Preparation Guide

Additional information is also contained in Duram's General Preparation Guide.

Priming: Suitable primers are Duram Azcoseal, Duram Primeseal or Duram Multiseal.

Azcoseal: Apply at 4m^2 per litre and allow to cure (usually taking 1-2 hours). Excessively porous or dusty surfaces may require an additional coat.

Primeseal & Multiseal: Apply at 4m^2 per litre and allow to cure (usually within 24 hours). Excessively porous or dusty surfaces may require an additional coat.

Note: Multithane Std can be used without priming on suitable substrates with a very low moisture content.

Multithane Std should be applied to the primed surface as soon as possible after the primer is dry and within 24 hours. Beyond this period the cross-linking diminishes. If membrane is not applied within 48 hours the area should be re-primed.

Damp surface must be primed with Duram Primeseal. Freedom from surface water and continual dampness is essential. Damp surfaces will delay curing.

Corners, Joins, Cracks, Gaps and Penetrations

To corners and around penetrations, apply Multithane - Vertical Grade (or other suitable polyurethane mastic) with small broad-knife to form and adequate (>5mm) fillet or cove. Joins, cracks and gaps must be properly filled with a polyurethane sealant.

All waste outlets including waste outlet flanges must be rebated to finish no

DURAM INDUSTRIES (PTY) LTD ACN 002 968 809 ABN 77 002 968 809
The Ultimate in Waterproofing & Protective Coating Technology

NEW SOUTH WALES: 51 Prince William Drive, Seven Hills, NSW 2147 Tel: (02) 9624 4077 Fax: (02) 9624 4079
WESTERN AUSTRALIA: 49 Banksia Road, Welshpool, WA 6106 Tel: (08) 9350 6565 Fax: (08) 9356 7575
QUEENSLAND: 775 Kingsford Smith Drive, Eagle Farm QLD 4009 Tel: (07) 3868 4888 Fax: (07) 3868 4390
NEW ZEALAND: Unit 3, 65 Elizabeth Knox Place, Mount Wellington, Auckland Tel: (09) 527 0551 Fax: (09) 527 0552

higher than flush with the substrate. Likewise the substrate should allow to water to readily drain via the outlets.

Where a fillet is not applied as previously described, a 50mm bond breaker tape (Duct Tape) should be laid over these areas before applying the membrane, which must be reinforced with Durascrim or other suitable matting, as described in Application.

Application

Apply Multithane by brush, roller or squeegee in two coats about 24 hours apart.

If a reinforcing matting is used with the membrane the application consists of a base coat, saturation coat and final topcoat ensuring that it is entirely saturated and covered.

In ideal conditions the membrane may be applied in a single coat after proper priming. The membrane should be initially monitored to ensure that pin holing or damage does not occur. If this occurs, lightly over-roll the surface of the wet membrane.

The minimum final dry film thickness for a single or two-coat system must be 1mm.

The walls of shower recesses and other wet areas to be tiled (excluding the upturns which must properly coated with Multithane and allowed to cure) should be waterproofed by applying a prime coat of Duram WB Primer and one good coat of Durabit EF applied at 1 square metres per litre.

Tiling Or Topping

Coarse, dry builders sand must be liberally broadcast into the final wet coat of Multithane Std to provide a mechanical key for toppings or tile adhesives. Multithane Std must be properly cured before tiling or topping and tiling must commence as soon as possible after the membrane has cured. If the membrane is exposed to the sun it must be covered within 1 month. The membrane must be clean and free of adhesion detracting substances before tiling.

Multithane Std is compatible with Duram Tilefix - Wallaby tile adhesive (flexible two-pack [cement powder + resin]) and sand/cement toppings and two pack tile adhesives.

When tiling, adequate expansion joints must be installed in accordance with good tiling practice.

Minimum Coverage

Multithane Std: 1.5 litres per square metre for combined coats (0.75 litre per m^2 per coat).

Coverage is dependant upon type, porosity, texture and application technique.

Packaging

Multithane Std: 5 and 15 litre cans.

Clean Up

Avoid spills, as removal is difficult. Wet brushes and equipment can be cleaned using Duram Solvent.

Precautions

Risk is considered low when properly used but it is important to observe precautions on the can and Material Safety Data Sheet.

Safety

Multithane Std is solvent based. The use of solvent resistant rubber gloves and goggles (against splashes) is recommended.

Self contained breathing masks/apparatus are recommended when spraying (rare), particularly in confined areas.

If swallowed do not induce vomiting, give plenty of water to drink. Seek urgent medical advice.

If in eyes, flush thoroughly with clean water.

If on skin, remove contaminated clothing and wash with soap and water.

If inhaled (unlikely due to its viscous nature), remove person to fresh air. Apply artificial respiration if required.

Product is flammable. Keep away from all sources of ignition.

Ensure that there is adequate ventilation. Vapours may collect in low-lying areas.

Technical Information

Cure Time	12 to +- 24 hours
Elongation	>500%.
Specific Gravity:	+- 1.16 - 1.20
Content Less VOC's:	+- 82
Shore Hardness	+- 78
Water Absorption %	1.0 - 1.5
Tensile Strength	+- 2.0 Mpa
Service Temperature	+- -20 to 100ºC.
Hydrostatic Pressure Resistance:	>70 Kpa.
Appearance	Coloured viscous liquid, usually light grey.
Clean Up	Duram Solvent to clean equipment.
Dilution	Not recommended but Duram Solvent.
Flash Point:	> 44 ºC.
Application Temp	10ºC to 30ºC (ambient)
Hydrostatic Pressure Resistance	> 1 kpa.
Shelf Life	6 months unopened.

Disclaimer

The company's liability in respect of this product is limited to the replacement of proven faulty product and is not responsible for any loss or damage arising from its use or any consequential damage whatsoever.