

# DUROMASTIC P15 DIAMOND



CERTIFIED CLASS III MEMBRANE IN ACCORDANCE WITH AS 4858 and AS 4654.1

## DESCRIPTION

Duromatic P15 DIAMOND is a polyurethane modified copolymer acrylic waterproofing membrane specifically formulated for non-exposed areas such as bathrooms, laundries, balconies, terraces and other wet areas. It provides excellent flexibility and crack bridging capability. It is a 2-coat system, to be applied over primed "porous and non-porous" substrates for internal and external under tile applications.

## FEATURES

- Class III, high elasticity as per AS/NZS 4858 Wet Area Membranes
- Water-based, pre-mixed -ready and easy to use and easy clean up
- Environmentally friendly – LOW VOC and free of respirable silica
- Water based polyurethane

## USE AREA

- As a waterproofing membrane under tile to internal wet area shower, bathroom, kitchen, laundry and toilet areas when installed according to AS/NZ 3740. P15 Diamond is also suitable for confined areas as it is water based and solvent free.
- For non-exposed and under tile exterior applications such as terraces, balconies, roofs and walkways (prior to tiling, it is recommended to use a Durotech branded polymer modified cement-based tile adhesive).
- Suitable for concrete; cement rendered masonry; FC sheeting; water resistant plasterboard; and structural plywood (Type A Stamped "PAA JAS-ANZ" to AS/NZS 2269- 2004) substrates

## TECHNICAL INFORMATION

<b>Appearance</b>	Heavy thick and high viscous liquid membrane
<b>Odour</b>	mild
<b>Solid content (weight)</b>	68%
<b>Solid content (volume)</b>	57%
<b>Density</b>	1.33 kg/li
<b>Dry to handle per coat (@22°C / 50% RH)</b>	1-2 hours
<b>Recoat time per coat (@22°C / 50% RH)</b>	2 -3 hours
<b>VOC (calculated)</b>	4.228 g/l
<b>Shore "A" hardness</b>	Approx. 60
<b>Elongation</b>	491%
<b>Tensile Strength</b>	1.92 Mpa
<b>WVTR (ASTM E 96 Desiccant Method)</b>	1.99 g/m <sup>2</sup> /24hours
<b>%H<sub>2</sub>O absorbed after 24 hrs</b>	3.766%
<b>Membrane Rating</b>	Class 3
<b>Flammability</b>	Non-flammable

## PACKAGING

- Available in a 4L, 15L pail



## SURFACE

- Not to be used directly to impervious or non-porous substrates.
- Not suitable for permanent immersed conditions such as pools, spas, and ponds.
- Cannot be used as exposed trafficable exterior membrane.
- Cannot be applied over damp or wet substrates.
- Not suitable for negative head of water pressure.
- Not designed to be left exposed and shall be covered by a tile, stone or other finishing material.

## Coverage

Coverage rate will depend on the porosity of the substrate. Two coats are recommended to get the optimum performance

### For floors:

A minimum dry film thickness of 1 mm after 2 coats is required. 15 litres will cover 8.6 sq. meter (based on two coats).

For a total film thickness of 1.2 mm after 2 coats, 15 liters will cover 7.2 sq. meter.

### For walls:

A minimum dry film thickness of 1.0 mm after 2 coats is required. 15 Litres pail will cover approximately 8.6 sq. meter.

Use Area	Wet Film Thickness (per coat)	Coats Required	Total Dry Film Thickness
Wet Area Walls	866 microns	2	1000 microns
Wet Area Floors	1040 microns	2	1200 microns
External Areas	1040 microns	2	1200 microns

## SHELF LIFE

Approximately 12 months in unopened containers stored in a cool, dry place.

## SURFACE PREPARATION/PRIMING

- Surfaces must be clean, dry and free from voids, laitance, grease, oil, wax, curing compounds, coatings, adhesive residues or any loose contaminating material.

- New Concrete substrates and render must have a wood float finish and be allowed to cure for a minimum of 28 days. Signs of Laitance and Efflorescence must be removed. Concrete substrates must not contain moisture greater than 4.5%. Use Tramex CME 4 Moisture Meter. Additional concrete testing maybe be required depending on concrete construction and jobsite location. 2 coats of 2K Moisture barrier primer like Duromix WBE Hibuild must be used to seal concrete slabs subject to a hydrostatic head of pressure from the negative side. Moisture Barrier primer must be clean, dry and smooth immediately prior to membrane application.
- Sand & cement screeds and polymer modified renders must have cured for a minimum 7 days. A High alkaline resistant primer/sealer is recommended to prime over screed prior to membrane application.
- For Porous substrates or slightly dense substrate, ARW Primer can be applied as primer (the consumption of this type of primer is depending on the porosity of the substrate).
- A reactive mineral primer/sealer like DuroPrime CMP must be applied as a primer coat on all applications to porous or semi porous cementitious substrates.
- Glazed ceramic tiles, Dry rigid plastic & metallic non-porous substrates shall be lightly abraded and then cleaned. Non-Porous Substrates primer like SSP Pro must be applied as primer coat.

Membranes should not be applied until substrates suitability has been assessed and all preparation steps have been completed.

## MIX PREPARATION

It is a premix product and ready to use.

However, if products have been stored longer, condensation may occur. Stir contents thoroughly before and during use.

## APPLICATION

Apply membrane according to the recommended coverage rate with thick paintbrush or a short nap roller. Allow the first coat to dry for a minimum of 2 hours and a maximum of 6 hours, at temperatures of 22°C and above but below 35°C before applying the 2nd coat at 90° to the first coat. Ensure there are no pinholes or air bubbles on the membrane surface.

Allow the membrane to dry for 6-8 hours prior to tiling or other finishes. Longer drying times will be required at lower temperatures. Drying times will vary depending on humidity, surface temperature and porosity of substrates.

\*Measurements are taken at 22°C and 50% relative humidity. Specifications vary according to site conditions and should be taken as a guide only.

## CLEAN-UP & RETURN TO SERVICE

Water can be used to clean up excess product, spills and tools while product is wet. When fully cured, tools and spills can be only removed mechanically.

## HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

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