

# DUROMASTIC P15 DIAMOND



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

## DESCRIPTION

Duromatic P15 DIAMOND is a High solids water based polyurethane modified copolymer 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
- Fast curing polymer system with excellent anti sag properties

## 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 Durotile polymer modified cement-based tile adhesive).
- Suitable for concrete; cement rendered masonry; FC s heeting; water resistant plasterboard; and structural plywood (Type A Stamped "PAA JAS-ANZ" to AS/NZS 2269- 2004) substrates

## TECHNICAL INFORMATION

<b>Appearance</b>	High viscous liquid membrane
<b>Odour</b>	Low
<b>Solid content (weight)</b>	68%
<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 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 RATE

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

Apply in a minimum of 2 coats at 750 microns wet film thickness per coat, achieving a minimum dry film thickness of 1,000 microns (1.0 mm).

## PRIMERS

- For porous substrates use Duromastic ARW
- For non-porous substrates use Duroprime SSP
- For high moisture applications use Duroprime DSP
- For applications such as damp substrates, green screeds, moisture barrier, Negative pressure coating use Duromix WBE Hibuild epoxy primer

For negative pressure application 2 or more coats are required seek technical help from Durotech before application \*

## PRIMING & DETAILING

Prime with either Duromastic ARW or Duromix Hibuild WBE epoxy primer, following the product's technical data sheet. It is essential that the application of the primer is carried out correctly. Allow the final coat of primer to dry. Next, apply Durotech Hybrid Sealant at all horizontal and vertical junctions such as floor to wall, and wall to wall. Apply a neat smooth fillet about 12mm x 12mm. Remove all sealant residues and overhangs. The sealant can be coated after a good skin has formed.

## SURFACE PREPARATION

- 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 Duromastic WBE hibuild Moisture barrier primer 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 DSP 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 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.

## HEALTH & SAFETY PRECAUTIONS

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

## MAINTENANCE

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 P15 Diamond.

HEALTH & SAFETY Refer Durotech MSDS prior to use.

## CLEANING

Clean tools, equipment and surfaces with water immediately after use, before the product has had a chance to dry. Once dried, removal will require physical scraping and/or prolonged soaking in a detergent and water solution. Fully cured material can only be removed by mechanical means. Always observe relevant OH&S requirements and refer to the Safety Data Sheet for safe handling and use of any solvents.

## LIMITATIONS

- Do not apply during rain or where wet weather is imminent.
- Do not apply to damp, contaminated or unprepared surfaces.
- Do not apply directly over protective or sacrificial coatings.

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