



DUROPROOF™ PPM

SINGLE COMPONENT POLYUREA/POLYURETHANE MEMBRANE

DUROPROOF™ PPM is a high quality, superior performance self levelling single component liquid that cures to rapidly to form a polyurea/polyurethane hybrid membrane that is tack-free, high modulus, tough, flexible and suitable for exterior use*.



PRINCIPLE CHARACTERISTICS

- ◆ Single component, easy to spread.
- ◆ Combines high elongation and tensile strength for excellent toughness.
- ◆ Low odour, low VOC & complies with Green Star requirements.
- ◆ Trafficable and tack-free overnight cure
- ◆ Good abrasion and tear resistance
- ◆ Good resistance to weathering.
- ◆ Class III - elongation as per AS/NZ 4858
- ◆ High build application is possible



USE AREA

- ◆ Reinforced concrete roofs and decks.
- ◆ Waterproofing external balconies, podium levels, prior to the application of a variety of surface finishes, such as tiled screeds, supported pavers, timber decking and synthetic grass.
- ◆ Light traffic installations



PACKAGING

- ◆ 20Kg

TECHNICAL INFORMATION

Appearance	Liquid, grey
Weather Resistance	Good
Solids Content , wt %	90
Tensile Strength Max.	6.6 MPa
Elongation at break	310%
Hardness	69 shore A
Clean up	Xylene
Shelf life	6 months in unopened container @ 20°C
Coverage	Wet area & non exposed: 1.25 litres/sq. m. at 1 mm dry film thickness. Exposed & light traffic: 1.5 litres/sq. m at 1.2 dry film thickness.
VOC	132 g/L

CURING: Cures within 8 hours. Re-coat within 48 hours @ 25°C & 75% RH.

Notes: DO NOT direct stick tiles to membrane. Use unbonded screed method in accordance with AS3958.1. Allow 24 hours to cure, prior to covering with surface finishes.

* For best exterior performance contact Durotech for top coats.

SUBSTRATE PREPARATION

Ensure sheet surfaces are firmly fixed to manufacturer's directions. Surface must be free of dirt, dust, loose particles, oily contaminates, old membranes & coatings laitance, curing compounds and flaking concrete, etc. Grind, acid etch or sandblast concrete if necessary. Concrete must be a minimum strength of 20MPa and have cured a minimum of 28 days. Concrete should be fine broom finished. Surfaces must be dry with a moisture content below 5%. Fill all screw holes, cracks and voids with PU sealant. Install leak control flanges around all pipe penetrations. Build-up areas that are likely to cause ponding.

PRIMING

The preferred primer for general use is Duromix Hibuild WBE Primer. PU Primer is suitable where the condition of the concrete surface needs a primer with good penetration. Coat PU primer within 24 hrs. For wet areas where prolonged water contact is likely e.g. roof areas under pebbles, prime and completely seal the surface with Hibuild WBE beforehand. Refer to the Hibuild WBE technical data sheet for full instructions. PVC fittings should be etched primed (e.g. pink plumber's primer).

DETAILING

Apply a 10-15mm fillet of PU Sealant between all horizontal to vertical joints. Apply to all horizontal to vertical junctions, and around pipe/column penetrations. Around rain water and floor waste outlets, and over fine shrinkage cracks, apply additional DUROPROOF™ PPM to 0.75mm dry film thickness and dress up to penetrations and down into waste outlets. To joints in sheet flooring, tape and bandage over the PU sealant joint. Cut out cracks in concrete to 6mm minimum width by 6mm minimum depth and fill with PU sealant before application of the membrane.

APPLICATION

To the prepared surface, apply DUROPROOF™ PPM by notched squeegee, spreader, brush or roller within a maximum of 48 hours between coats to achieve an optimum intercoat bond. Turn membrane up at walls and penetrations and down into drainage outlets. When dry, check for pinholes or misses and rectify if necessary. If membrane becomes dirty between coats, clean with Xylene to ensure adhesion. Allow 24 hours to dry before covering.

PRECAUTIONS

Do not apply above 30°C or below 5°C ambient temperature. If applying more than one coat externally, ensure before starting the job, that rain is not expected between coats. Do not apply mortar beds until the membrane is fully dry. Protect membrane against damage before and during covering with mortar. Protect membrane against the action of roots.

WARNINGS AND HAZARDS

Keep away from heat and flame. Use only with adequate ventilation. Refer to MSDS prior to use.

HANDLING AND STORAGE

DUROPROOF™ PPM can be stored for 6 months below 25°C. Avoid prolonged exposure to humidity or high temperature, contamination with water or alcohols. The product is very sensitive to air and moisture. Once opened, use completely as soon as possible and do not reseal for future use.



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