

DUROPROOF™ PPM STD

SINGLE COMPONENT POLYUREA/ POLYURETHANE MEMBRANE



DESCRIPTION

DUROPROOF™ PPM STD is a high quality, superior performance 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*.

FEATURES

- 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
- UV Resistant

SUITABLE SURFACE

- 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.
- Retaining Walls
- Light traffic installations
- Under paver-pad systems
- Planter box

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	DUROTECH™ Xylene
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Coverage	DFT Internal applications: 1200 microns DFT External applications: 1500 microns
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Where not specified, a minimum DFT of 1.5mm must be employed, in one or two coats.

VOC	132 g/L
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CURING	Within 8 hours. Re-coat within 48 hours @ 25°C & 75% RH
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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.

APPROVALS / CERTIFICATES

- AS4858 Certified
- AS4654.1 Certified



PACKAGING

15 Litre.

SUBSTRATE PREPARATION

Surface must be free of dirt, dust, loose particles, oily contaminants, 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 DUROSEAL™ 40FC or DUROSEAL™ FC PRO. Install leak control flanges around all pipe penetrations. Build up areas that are likely to cause ponding.

PRIMING

DUROTECH™ HIBUILD WBE may be used in areas where the moisture content of the surface is low, applied at no less than 1 Litre 4m². If there is a risk of entrapped moisture in the substrate which may cause the membrane to bubble or out gas, two coats of DUROTECH™ HIBUILD WBE should be applied. DUOPRIME™ PU primer may be used on porous substrates such as concrete at the rate of 6-8m² per litre. Excessively porous, friable, and dusty surfaces may require an additional priming coat. Metal surfaces must be clean and free of contaminants and then apply DUOPRIME™ ME or DUROTECH™ HIBUILD WBE. If surface rust is present, treat the rust with a rust converter, and then apply DUOPRIME™ ME or DUROTECH™ HIBUILD WBE. Ensure primers dry before applying DUROPROOF™ PPM STD and refer to the technical data sheet of the relevant primer. PVC fittings should be etched and primed with DUROTECH™ HIBUILD WBE.

BOND BREAKER

When installing bond breakers use DUROSEAL™ 40FC or DUROSEAL™ FC PRO. The bond breaker is to be installed over the dry primer coat where a bond breaker joint is required. Bond breaker joints must be a minimum 15mm x 15mm for external applications at a 45 degree angle. Apply DUROPROOF™ PPM STD once DUROSEAL™ 40FC or DUROSEAL™ FC PRO has cured.

APPLICATION

To the prepared surface, apply DUROPROOF™ PPM STD 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 DUROTECH™XYLENE to ensure adhesion. Allow 24 hours to dry before covering.

PRECAUTIONS

1. 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.
2. Not suitable for use in areas of ponding water.
3. Do not allow ponding to occur between coats or before system is fully cured.

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 STD 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.

NOTE

DUROPROOF™ PPM STD performance is not compromised when exposed to UV light, however it may discolour and some chalking of the surface may occur. It is highly recommended that a top coat be applied when applying membrane in areas where membrane is to be left completely exposed for the life of its service.

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