

# DUROPROOF™ PU ANTI ROOT

## POLYURETHANE MEMBRANE FOR PLANTER BOXES AND ROOF GARDENS

DUROPROOF™ PU ANTIROOT is a high quality, single component liquid that cures rapidly to form a polyurethane elastomeric membrane that has a high tensile and tear strength with good flexibility. This inherent toughness in combination with special additives actively deters penetration of the membrane by plant roots.



### PRINCIPLE CHARACTERISTICS

- ◆ Single component, easy to spread.
- ◆ Excellent toughness.
- ◆ Low odour, low VOC & complies with Green Star requirements.
- ◆ Tack-free overnight cure
- ◆ Good abrasion and tear resistance
- ◆ Class III - elongation as per AS/NZ 4858
- ◆ High build application is possible without gassing



### USE AREA

- ◆ Waterproofing planter boxes
- ◆ Waterproofing roof gardens (green roofs)



### PACKAGING

- ◆ 20 Kg

## TECHNICAL INFORMATION

Appearance	Liquid, black
Solids Content	>90% by weight
Tensile Strength	>7 MPa
Elongation at break	>300%
Hardness	> 60 Shore A
Coverage	1.5 litres/sq. m. for a1.2 mm dry film thickness (total after application in 2 coats).
Curing	Cures within 8 hours. Re-coat within 48 hours @ 25°C & 75% RH.
VOC	132 g/L
Shelf Life	6 months in unopened container @ 20°C
Cleanup	Xylene

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.

## 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™ PU Anti-Root to 0.75mm dry film thickness and dress up to penetrations and down into waste outlets. To joins 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™ PU Anti-Root 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.

## WARNINGS AND HAZARDS

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

## HANDLING AND STORAGE

DUROPROOF™ PU Anti-Root can be stored for 6 months at 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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The information provided in this data sheet is correct at the time of printing (albeit is subject to change at any time) and is intended to give a simple description of the product and its capabilities. In practice, the substrate, intended surface to be treated and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and to ensure that the product is not used beyond its physical limitations. If in doubt contact the manufacturer. The product will perform as described herein provided it is applied in accordance with the manufacturer's instructions as stated in this data sheet and provided that the building and installation is structurally sound and the application is carried out competently. Durotech terms and conditions of sale apply.