

## **DUROPROOF™ PU**

### **For Planter Boxes, Retaining Walls and Tanking**

*DUROPROOF™ PU Membrane is a Class III, liquid applied, modified polyurethane elastomeric waterproofing membrane, which when fully cured forms a permanently flexible waterproof lining to most building surfaces, including reinforced concrete, block work, brick work, cement render, plaster board and fibre cement sheet flooring.*

#### **PRINCIPLE CHARACTERISTICS**

- Single component, no mixing
- Simple application—liquid applied
- Application by brush, spray, roller, squeegee or trowel
- Excellent elasticity
- Seamless—no joint
- Low temperature cure
- Moisture cured
- Coal tar free
- May be applied over concrete, blockwork, bricks, wood, metal and stone

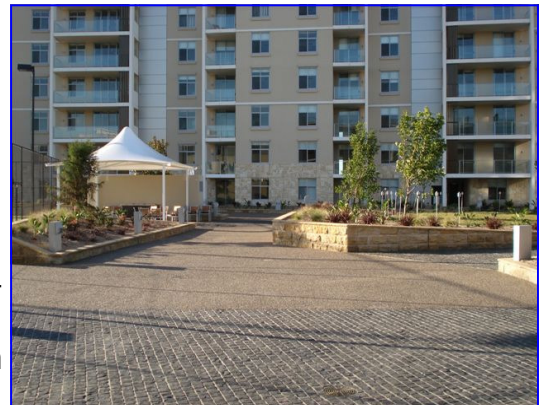


#### **USE AREAS**

- Planter Boxes
- Tanking
- Retaining Walls
- Balconies
- Podium Decks

#### **CLEANUP**

Before material cures, clean adjacent areas to remove stains or spills and clean tools with **Xylene**. Do not wash off skin with solvents, use **Durotech Handi-Clean**.



#### **GENERAL**

Colour	Black
Weather Resistance	Protect from sunlight
Dry Time	12 hours @ 25 °C
Recoat Time	24 hours @ 25 °C
Floor Coverage	Min 2 coats, each at 1.0 litres /m <sup>2</sup> [1.0m <sup>2</sup> /litre]
Wet film per coat	1.00mm thick min
Dry Film Thickness	1.5mm total min
Wall Coverage	Min 2 coats, each at 0.65 litres /m <sup>2</sup> [1.5 m <sup>2</sup> /litre]
Wet film per coat	0.65mm thick min
Dry Film Thickness	1.0mm total min
Elongation @ break	+600% @ 25 °C
Solids Content	77% by volume
Shelf Life	12 months in unopened container @ 20 °C

#### **PACKAGING**

- 18.9 litres (US 5 gallon)

**INSTALLATION****1. SURFACE PREPARATION**

Ensure surfaces are firmly fixed to manufactures directions. Surface must be free of dirt, dust, loose particles, oil, contaminates, curing compounds and flaking concrete etc. Concrete must be a minimum strength of 20 Mpa and have cured a minimum of 28 days. Surface must be dry. Fill all screw holes, cracks and voids with **DURO-PROOF™ PU**. Install leak control flanges around all pipe penetrations, these shall be etched primed. If concrete is not fully cured, apply **DUROMIX™ WBE** as a primer.

**2. PRIMING**

**DUROPROOF™ PU** is self priming on most surfaces such as villaboard, sound concrete & block work. External, horizontal surfaces must be primed by thinning Duro-proof™ PU with 20% Xylene or with Duromix™ WBE at the rate of 6m<sup>2</sup>/Litre. Damp areas and areas subject to rising damp must be sealed with **DUROMIX™ WBE**. Allow primer to dry prior to membrane application.

**3. DETAILING**

Apply a 15mm fillet of **DUROPROOF™ PU SEALANT** between all horizontal and horizontal joints and to all horizontal to vertical junctions and around pipe/column penetrations. Around rain water and floor waste outlets, apply membrane to 1.5mm dry film thickness and dress up to penetrations and down into waste outlets. To joints in sheet flooring, tape and bandage over the mastic-filled joint. Cut out cracks in concrete to 6mm minimum width by 6mm minimum depth and fill with **DURO-PROOF™ PU SEALANT**.

**4. APPLICATION**

To the prepared surface, apply **DUROPROOF™ PU** by brush, roller or trowel in one or more coats to achieve a minimum dry film thickness of 1.0mm walls and 1.5mm floors. 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**

Do not apply above 30°C or below 5°C ambient temperature. Do not cover until fully cured. Protect membrane against damage before and during backfilling or covering. **Durotech Protection Board** may be used where suitable. **DUROPROOF™ PU** should always be protected from UV exposure by covering with tile bed, sand-cement topping or soil etc. Protect membrane against the action of roots. Do not directly adhere tiles over **DUROPROOF™ PU**. Once opened, use within 24 hours since it is a moisture reactive material. It sets up when it is exposed to air.

**WARNINGS AND HAZARDS** Combustible liquid and vapour. Keep away from heat and flame. Use only with adequate ventilation. Avoid contact with the eyes or skin, especially open breaks in the skin. In the event of skin contact, remove excess product and wash with warm soapy water. Refer to **Durotech MSDS** prior to using.

**NOTE: DUROPROOF™ PU used to be called Duromatic**

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**DUROTECH**

*The information provided in this technical bulletin is as correct in detail as possible and is intended to give a fair description of the product and its capabilities. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the products suitability for a particular application and that the product is not used beyond its physical limitations. The product is guaranteed providing that it is applied in accordance with the manufacturer's instructions as stated in this data sheet and any relevant Standard or Code and provided that the building and installation is structurally sound. Durotech terms and conditions of sale apply.*