



SRO 836 Waterproofing Specification – Retaining Walls Liquid Applied Membrane systems – Protected

Scope

Liquid applied membrane system applied to suitably prepared substrates to form fully bonded seamless membrane on the positive side against water penetration.

Applications

Typical applications include;

- Retaining Walls and basement walls not in a permanent water table

Substrates

Suitable substrates for the liquid applied membrane systems include

- Concrete
- Core filled and reinforced concrete block walls,
- Reinforced brick walls that have been finished with flush joints and/or rendered

Substrate Preparation

Substrates to which the liquid applied membranes are to be applied must be structurally sound and free of all contaminants (e.g. laitance, form release agents). Contaminants such as paints must be removed by the same method that smooth steel trowel finished concrete is treated. The concrete is scarified by mechanical methods such as shot blasting, grinding, abrasive blasting and scarifying to achieve an open pored surface with a fine profile. The substrates should have completed the recommended minimum curing/drying periods (e.g. 28 days for concrete) with all holes/voids filled with cement based patching mortars (e.g. [ARDEX A 46](#) or [ARDEX BR 345](#) system) and all surface protrusions ground flat. .

Liquid Applied Membrane Systems

- [ARDEX WPM 179](#) Bituminous latex – water based membrane
- [ARDEX WPM 157](#) Polyurethane – solvent based membrane

These liquid applied membranes are to be applied in a minimum of 2 coats to achieve the dry film thickness recommended on the product data sheet.

Priming

[ARDEX WPM 179](#) is diluted with water at (50/50) to be used as a primer on dry porous substrates prior to the application of the undiluted [ARDEX WPM 179](#) membrane. New and/or wet concrete is primed with [ARDEX WPM 300](#) applied at not more than 3 sqm per litre and left to dry prior to application of the membrane

[ARDEX WPM 300](#) is also used to prime all prepared substrates prior to the application of the [ARDEX WPM 157](#) Polyurethane membrane when applied at not more than 3 sqm per litre and left to dry prior to application of the membrane

Membrane Installation

Wet film thickness gauges are used to ensure the correct amount of materials is applied to achieve the recommended dry film thicknesses. Two coats (minimum) are recommended to ensure any pinholes are not continuous through the total membrane. The drying time between successive coats is 2-4 hours for the [ARDEX WPM 179](#) while



second coat of the [ARDEX WPM 157](#) must be applied within 18 hours to achieve adhesion of the top coat to the first coat.

Curing/Drying

Liquid applied membranes require some time to cure and fully harden. Please refer to the individual product data sheets for the recommended curing/drying periods.

Membrane Protection

The fully cured/dry membrane must be covered with protection prior to backfilling or placement of the topping screeds. Protective materials include;

- 5mm minimum thickness Geotextile fabric
- Ardex Protection Board
- Approved proprietary drainage cell systems. Eg [ARDEX DRS 10/18 GC](#)

Note: These membranes are not compatible with tile adhesives.

Disclaimer:

The recommendation selected is based upon questions answered on the ARDEX Australia website. This recommendation is designed as a general application for your described situation and should not be considered site specific documentation for general distribution. Always consult the latest relevant ARDEX Technical Bulletins and information on the product packaging and/or product data sheets (available on the ARDEX Website). Australian and other relevant standards should be followed during installation. If you have any further questions or would like further clarification please contact the ARDEX Technical Services Hotline on 1800 224 070 (9am to 5pm Monday to Friday).