ENGINEERED SOLUTIONS
FOR TILING, FLOORING & WATERPROOFING

SRO 851 Waterproofing Specification
Liquid Applied Membrane system – Protected Fast Cure

Scope
Spray applied bituminous rubber membrane system for suitably prepared substrates to form fully bonded seamless membrane on the positive (exterior) side of lift shafts or planter boxes against water penetration.

Applications
Typical applications include;
- Lift Shaft Walls and adjacent basement walls not in the permanent water table
- Planter boxes

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 spray applied membrane is to be applied must be structurally sound and free of all contaminants (e.g. laitance, form release agents). Contaminants are best removed, and smooth steel trowel finished concrete 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 A46**) and all surface protrusions ground flat. Ensure all drainage wastes are fitted with suitable flanges onto which the membrane can be terminated.
Coving fillets (minimum 50 x 50mm) shall be provided to all internal corners and covered with **ARDEX Waterproofing Detail Tape**. The fillets can be formed using a rapid setting patching mortar such as **ARDEX A46.**

Spray Applied Membrane System
- **ARDEX WPM172** spray applied membrane to achieve the required thickness.

This membrane (**ARDEX WPM172**) is to be applied in a continuous spray application to achieve the recommended minimum 2mm dry film thickness. Typical tanking application is 2-4mm thickness.

Priming
ARDEX WPM172 is normally self-priming on most surfaces. Wet or new concrete should be sealed with **ARDEX WPM300** applied in one coat at not more than 3 sqm per litre. The ARDEX Waterproofing Detail tape shall be primed using only Part A of the **ARDEX WPM172** system. Ensure the tape is thoroughly wetted out before spraying of the proper membrane starts.

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Membrane Installation
This spray applied membrane system is applied using a twin pump system that has been pre-set to deliver the product in the correct mix ratio.
Wet film thickness gauges can be used to ensure the correct amount of materials is applied to achieve the recommended dry film thicknesses.

Curing/Drying
Spray applied membranes require some time to cure and fully harden. The **ARDEX WPM300** is normally dry overnight while the **ARDEX WPM172** is cured in 24 – 48 hours (dependent on thickness). 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

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).

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