SRO 849 Waterproofing Specification - Resilient

Waterproofing Internal Wet Areas – Resilient (Vinyl) Finishes

Scope

Liquid applied waterproofing membrane systems are applied to suitable substrates to form a fully bonded continuous barrier against water penetration prior to the installation of the resilient wall and floor finishes.

Applications

ARDEX liquid applied waterproofing membranes complying with AS4858 and installed according to the recommendations of AS3740; can be used with ARDEX smoothing cements prior to the installation of resilient floor and wall finishes.

Substrates

Suitable substrates for liquid applied membranes include.

- Concrete
- Cement based renders & screeds, including ARDEX specialty cement systems
- Fibre cement and/or plasterboard wall sheeting
- Compressed fibre cement floor sheeting

Substrate Preparation

Substrates to which the liquid applied membranes are to be applied must be structurally sound and all sheeting is to be securely fixed to the support framing in accordance with the sheet manufacturers' instructions. All substrates are to be clean and with no contaminants or loose particles on the surfaces. Concrete is to have an open porous surface while topping screeds must comply with AS1884-2021. Steel trowel smooth concrete is to be roughened, and any contaminants (e.g. concrete curing compounds, laitance, paint over-spray and/or waxy, oily residues) are to be removed by mechanical means such as diamond grinding or shot blasting, to achieve the open porous surface with a fine profile. All surfaces shall be flat with all holes/voids removed and all protrusions and sharp edges removed. Concrete shall have cured for the recommended 4-6 weeks and screeds left to dry for at least 7 days prior to the membrane application.

Ensure all floor wastes are the type with a large flange to which the membrane can be applied onto. PVC flanges and other pipe penetrations may be prepared by sanding with abrasive paper and/or etched using the plumber's solvent prior used when joining PVC pipes. Metal floor wastes require the appropriate metal primers.

Priming

All prepared substrates are to be primed, and the primer left to dry prior to application of the selected membrane system. The nominated primers are.

- **ARDEX WPM265** – preferred primer for these membranes that dries with reddish tint showing where the primer has been applied.
- **ARDEX Multiprime** - can also be used on porous substrates (e.g. fibre cement sheet) prior to tiling, dries clear.
- **ARDEX WPM300** - Two-part water-based epoxy used where concrete substrates and/or bedding screeds are damp.
- **ARDEX WPM368** - Single part water-based Acrylic used where concrete substrates and/or bedding screeds are damp.

Membrane Systems
The liquid applied membrane systems can be applied to full height of shower walls and include.

- **ARDEX WPM002 -** Two-part cementitious acrylic waterproofing membrane
- **ARDEX WPM155 Rapid Plus -** Water-based polyurethane-acrylic hybrid waterproofing membrane
- **ARDEX WPM130 -** Acrylic PU water-based waterproofing membrane

Membrane Installation
After the substrates have been primed and the primer has dried, internal corners, construction joints, cold joints and cracks shall be covered with neutral cure silicone sealant that is spread to form a continuous film across and extending to at least 5mm either side of the corner/joint/crack. The silicon forms the bond breaker in areas where movement may be anticipated. Apply a liberal coat of the selected membrane over the silicone and embed the **ARDEX Deckweb** polyester carrier fabric into the wet coat so that it becomes wet through from the bottom. Apply a topcoat of the nominated membrane to completely cover the fabric. Once all the corners/joints' cracks have been treated, apply 2 coats of liquid membrane over all surfaces to achieve the recommended minimum dry film thickness. Allow the nominated membrane to fully dry for the recommended times prior to adhesive fixing the tiles and/or placing a topping screed.

Precautions

- Topping screeds such as **ARDEX A38** or **A48** cannot be installed directly over a waterproofing membrane as a bonded screed. The topping must be installed first, and the membrane applied over the top. If you intend to install a membrane underneath the topping, the screed must be unbonded meaning a plastic slip sheet is required between the membrane and the topping. Refer to **ARDEX Technical Bulletin TB178** for guidance on the specialty cements suitable for use as toppings in internal wet areas before installing resilient floor coverings.
- Movement joints in the substrates must be maintained through the topping screeds and/or tile finish.

Where the membrane is exposed on surfaces to be covered with the resilient finish, the membrane must be smoothed by application of 1.5 to 2.0mm of **ARDEX Feather Finish** or **ARDEX MRF** smoothing cement. This layer provides sufficient porosity for water-based vinyl adhesives (**ARDEX AF171**) to set correctly while protecting the membrane if solvent-based vinyl adhesives are used. ARDEX Flexible MS adhesive (**ARDEX AF180MS**) may also be used over the smoothing cements.

NOTE.

- ARDEX product data sheets and relevant ARDEX Technical Bulletins must be read in conjunction with this specification.

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).