SRO1278 Coating Specification
ARDEX WPM 330
Acrylic Façade Coating Systems – Coastal Facades

Scope
ARDEX WPM 330 is a weather resistant water based acrylic waterproofing membrane. It forms a fully bonded seamless coating on the positive side against the penetration of water, chloride ion and carbon dioxide.

It has been specially designed as an exposed facade membrane to protect the building structure while still allowing the substrate to breathe.

ARDEX WPM 330 is highly resistant to dirt retention as it contains fungi and algae growth inhibitors. The product's flexibility and high build qualities allows it to be applied over hairline cracks.

ARDEX WPM 330 is water based, low in odour and can be tinted to a range of decorative colours.

Applications
Typical applications include;
- External wall façades
- External exposed faces of planters

Substrates
Suitable substrates for the liquid applied membrane system include:
- Concrete
- Core filled and reinforced concrete block walls
- Brick walls that have been finished with flush joints and/or rendered surfaces e.g., **ARDEX WR 100**

Substrate Preparation
Note:
(1) There will always be a high concentration of chloride ions in coastal locations. This means that all surfaces to be coated must initially be thoroughly high pressure washed with water. These surfaces must then be allowed to thoroughly dry before further substrate preparation then membrane application can occur.
(2) Any areas of rusted reinforcement and spalled concrete must be treated and reinstated with the appropriate Primers and Repair Mortars (refer SRO1271).

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 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 and 7 days for render).

Cracks and voids
ARDEX WPM 330 can be applied directly over hairline cracks up to 0.2mm. All other cracks should be treated with a neutral cure silicone such as **ARDEX ST**. Other deep surface imperfections should be repaired using ARDEX concrete repair mortars (e.g.,

ARDEX A 46 or **ARDEX BR 345**) and allowed to cure for 7 days. All surface protrusions should be ground flat.
Irregular surfaces resulting from peeled paint should be ground smooth then finished using ARDEX concrete repair systems.

Joints (Windows and Doors)
Joints around windows and doors can be filled with a flexible, paintable sealant such as **ARDEX RA 030.** It is a one-component, moisture curing, professional grade, elastomeric, polyether joint sealant. It has excellent bond strength to most porous and non-porous substrates without the use of a primer. **ARDEX RA 030** is non-sag and may be applied on vertical and horizontal surfaces. It should be allowed to cure for approximately 24 hours for each mm of thickness. The sealant can be over coated with **ARDEX WPM 330**.

Priming
The standard primers for dry external substrates are **ARDEX WPM 270** solvent based primer and **ARDEX P 9** water based primers. It is applied in one coat at 6m²/Litre per coat. It should be allowed to dry for 3 hours approximately before application of the membrane.

ARDEX WPM 300 or **ARDEX WPM 368** can be used as the primer for this membrane where the substrate is damp (i.e. more than 5% moisture content). Both are applied in two coats at 3m²/Litre per coat. The **ARDEX WPM 300** or **ARDEX WPM 368** must be dry prior to the application of the **ARDEX WPM 330**.

Note: Primed surfaces should preferably be over-coated with the waterproofing membrane within the same day of application to avoid inter-coat contamination.

Membrane Installation
This liquid applied membrane system is typically applied with brush and roller equipment.

Apply the first coat of **ARDEX WPM 330** at a rate of 3m² per litre to achieve a wet film thickness of 0.35mm then allow it to dry. Apply the second coat at approximately the same rate to achieve a final dry film thickness of around 0.35mm.

Wet film thickness gauges can be used to ensure the correct amount of material 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.

Surface finish
The surface finish achieved will vary depending on the method of application. Prior to commencement of any project it is recommended that a sample of the finish be prepared for approval. It is that finish that should serve as the standard.

Surface Profile Finish	Roller Type	
	1st Coat	2nd Coat
High Texture	Med. Texture	Med. Texture
Medium Texture	Nap	Med. Texture
Low Texture	Med. Texture	Nap

Ripple Texture	Nap	Nap

The length of the roller nap will vary the profile of the texture although the nap length must suit the substrate. A 12–15mm nap produces a low surface profile while a 15–24mm nap produces a higher surface profile.

Curing/Drying - (25°C / 50% RH)
- Surface dry - 2 hours
- Recoat - 4 hours
- Hard dry - 7 days

Lower temperature and higher humidity will prolong drying.

Coverage: 1 x 15 litre unit of **ARDEX WPM 330** will cover approximately 20m² at a dry film thickness of 0.35mm (two coats).

Membrane Protection
This membrane is UV stable and can be left fully exposed without additional protection.

Notes:
- **ARDEX WPM 330** is not designed to be used as an under tile membrane.
- The product should not be used in trafficable areas.
- Do not apply **ARDEX WPM 330** If the surface temperature is below 10°C or above 35°C.
- Do not apply if rain is imminent.

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).