



SRO1279 Coating Specification ARDEX WPM 310 Acrylic Façade Coating Systems – General Facades

Scope

[ARDEX WPM 310](#) is a tough weather resistant water based acrylic waterproofing membrane. It has been specifically formulated as a general purpose membrane for exposed wall and roof waterproofing. [ARDEX WPM 310](#) can be applied as an aesthetically attractive textured or semi-smooth finish for walls or a semi-smooth uniform finish for roofs.

[ARDEX WPM 310](#) is highly resistant to dirt retention as it contains fungi and algae growth inhibitors. The product's flexibility and high build will accommodate normal building movement and allow it to be applied over hairline cracks up to 0.2mm.

[ARDEX WPM 310](#) is water based, low in odour and can be tinted to a range of decorative colours.

Applications

- **Dry Film Thickness - 0.30mm:** The film formed is classified as semi-permeable and suitable for substrates that have to breathe. At this thickness it can be used as a decorative textured finish and waterproofing membrane for external walls and facades.
- **Dry Film Thickness - 1.0mm:** At this thickness the film forms a waterproof membrane. It is used as a waterproofing membrane over concrete roofs and decks. It is suitable only for light/occasional (service) traffic. High traffic areas will require the installation of a protective cement screed over the membrane.

Note: The product should not be used where solvent or petroleum based products could be spilled.

Typical applications include;

- External wall façades
- External exposed faces of planters
- External exposed concrete roofs and decks

Substrates

Suitable substrates for the liquid applied membrane system include:

- Concrete (facades and decks)
- 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](#)

SURFACE PREPARATION

Ensure all surfaces are structurally sound and totally dry. The surface to be coated should be free from dust, oil, curing compounds and any other contaminating materials. When applying over existing coatings, ensure they are firmly bonded. Damaged or spalled concrete should be repaired with [ARDEX BR 345](#) and [ARDEX BR 120 FC](#) patching mortar (levelled) and fairing coat. Surface defects including all cracks and sharp protrusions should be treated prior to the application of the membrane.



Surface laitance should be removed by mechanical means and dense concrete should be mechanically roughened to open the pores of the concrete.

New concrete should be left at least 28 days to cure or be primed with [ARDEX WPM 300](#) (HydrEpoxy 300) after 7 days curing. Wet, damp or new concrete substrate surfaces should be primed with [ARDEX WPM 300](#) (HydrEpoxy) at 3m²/Litre (0.3mm wet film thickness) and allowed to cure overnight.

Priming

Note: Safety precautions must be taken. i.e., chemically resistant gloves must be worn.

The standard primer for dry external substrates is [ARDEX WPM270](#) solvent based primer. It is applied in one coat at 6m²/Litre. 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 310](#).

[ARDEX WPM 300](#) can be applied directly over hairline cracks. All other cracks should be treated with one of the ARDEX crack repair systems.

All surfaces, other than those sealed with [ARDEX WPM 300](#) (HydrEpoxy) or [ARDEX WPM 368](#), must be primed with [ARDEX WPM 270](#) solvent based or [ARDEX WPM 265](#) or [ARDEX P 9](#) water based primers at a coverage rate of 6m²/Litre. [ARDEX WPM 270](#) solvent based primer is preferred for use in external applications (but the substrate must be dry). AAC block or other highly porous surfaces may need two coats of [ARDEX WPM 265](#).

Allow the primer to dry for at least 30 minutes before applying the first coat of membrane. The primer should preferably be over coated within the same day of application to avoid inter-coat contamination.

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 310](#).

Liquid Applied Membrane System

- [ARDEX WPM 310](#) General façade and roof coating

This liquid applied membrane is to be applied in a minimum of 2 coats at an approximate wet film thickness of 0.3mm per coat to achieve a final dry film thickness of approximately 0.30mm.



Membrane Installation

Note: Safety precautions must be taken. i.e., eye protection and chemically resistant gloves must be worn.

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

Apply the first coat of [ARDEX WPM 310](#) to achieve a wet film thickness of 0.30mm then allow it to dry. Apply the second coat at approximately the same rate to achieve a final dry film thickness of around 0.30mm.

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	
	1 st Coat	2 nd 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 310](#) will cover approximately 24m² at a dry film thickness of 0.30mm (two coats).

Membrane Protection

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

Notes:

- [ARDEX WPM 310](#) 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 310](#) 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).