



## TECHNICAL BULLETIN – TB012D

# APPLICATION OF ARDEX FLC MEMBRANES FOR WALL AND FLOOR VINYL SYSTEMS

18<sup>TH</sup> SEPTEMBER 2024

### INTRODUCTION & SCOPE

This bulletin defines the systems ARDEX recommends for use in wet areas where falls to waste, and a waterproof membrane and sheet vinyl is to be installed. The system descriptions and properties are provided in ARDEX Technical Bulletin TB178.

### SYSTEMS FOR FALLS AND BEDS

The following tables show the recommended systems for creating falls and smoothing.

Cure	Place	ARDEX Product	ARDEX E25 Recommended	Bulk Filled		Limits
				2 – 5mm Aggregate	0.3-0.5mm Dry Sand	
Ultrarapid - Same Day Cure < 3hrs	Premium	K55	No	Yes	No	Any thickness. Very high flow without aggregate restricts the ability to create falls.
		A45	Yes	Yes	Yes	1-30mm sand/small aggregate 30-50mm coarse aggregate (φ 10-12mm)
Rapid Cure – Overnight 16 - 18 hours	Standard	K15 Micro	Yes No	Yes	Yes	Any thickness. High flow without filler restricts the ability to create falls.
		K12 New	Yes	Yes	No	The maximum recommended thickness is restricted to 50mm.
		A38 / A48	No	Engineered screed		10-70mm bonded 40-70mm unbonded
Moderate Cure – 24 - 72 hours	Less time Dependent or Budget	K900BF	TBA	No	No	Any thickness 10-90mm It does not feather out.
		Arditex-NA	No	Yes	No	Softer than other smoothing cements Maximum recommended thickness 30mm.
		A46	No	No	No	Maximum recommended thickness 30mm.
		K301	No	Yes	No	Maximum thickness 20mm neat or 30mm with aggregate.



Due to the rough surface texture, bulk-filled and A38/A48 systems may require a smoothing coat before the waterproof membrane is installed.

## MEMBRANE SYSTEM

Membranes are required to comply with the general requirements of AS3740.

The recommended waterproof membrane for applying over the floor base and up the walls is ARDEX WPM002, with a dry film thickness of 1.2mm.

An alternate membrane is ARDEX WPM155 Rapid Plus or WPM130 Builders Express, which must be applied at a minimum of 1.0mm dry film thickness on the floor. This requirement must be observed and exceeds the general thickness recommendation on the datasheet for WPM155 Rapid Plus for tiling-type applications.

## FAIRING COAT

A fairing coat is required for several reasons.

- The surface of the membrane is typically quite heavily textured, leading to potential show-through issues with the vinyl.
- The membrane is non-porous, which can create a problem for water-based vinyl adhesives.
- Vinyl laying operations can damage the membrane

The fairing cement recommended is **ARDEX Feather Finish** or **ARDEX Fine Finish** 1.5mm thick on floors and 1mm thick on walls. Alternatively, **Arditex NA** 2-3mm thick can be applied to the floor for a thicker build and increased resistance to solvent-based products applied over the top.

## ADHESIVES

The following adhesives can be used to install the sheet vinyl.

**ARDEX AF180MS**, is a specialized modified silane adhesive that is water resistant.

**ARDEX AF171** fast grab adhesive will bond the covering, but note that it requires correct tack-off time to prevent moisture capture.

**ARDEX CA750** contact adhesive can be used to bond the floor covering at the floor waste and for bonding mouldings and covings. The adhesive must be allowed to flash off before the final bonding is performed.

**ARDEX CA20P** silane adhesive/sealant can be used to bond mouldings and covings, but is not fast grab like contact adhesives.

**IMPORTANT**

This Technical Bulletin provides guideline information only and is not intended to be interpreted as a general specification for the application/installation of the products described. Since each project potentially differs in exposure/condition, specific recommendations may vary from the information contained herein. For recommendations for specific applications/installations, contact your nearest Ardex Australia Office.

**DISCLAIMER**

The information presented in this Technical Bulletin is to the best of our knowledge true and accurate. No warranty is implied or given as to its completeness or accuracy in describing the performance or suitability of a product for a particular application. Users are asked to check that the literature in their possession is the latest issue.

**REASON FOR REVISION-ISSUER**

Change of slogan and address

**DOCUMENT REVIEW REQUIRED**

36 months or whenever third-party suppliers change their recommendations.

**Australia:** 1300 788 780

**New Zealand:** 643 384 3029

Web: [www.ardexaustralia.com](http://www.ardexaustralia.com)

email: [technical.services@ardexaustralia.com](mailto:technical.services@ardexaustralia.com)

Address: 2 Buda Way, Kemps Creek NSW 2178