

TECHNICAL BULLETIN – ATB 008

BONDING CERAMIC TILES TO WET-SEAL™ ENVIRO-COAT DS 411 AND ENVIRO-COAT IS 511 WATERPROOFING MEMBRANE SYSTEMS

DATE: THURSDAY, 1 NOVEMBER 2012

INTRODUCTION

Ardex Australia Pty Ltd has carried out testing to determine the effectiveness of a number of ceramic tile adhesives when applied over Wet-seal™ Enviro-coat waterproofing membranes marketed by the Wet-seal™ group operating in Australia and New Zealand. These adhesives were Ardex adhesives and this bulletin lists the acceptable ABA equivalents.

“ENVIRO–COAT” WATERPROOFING SYSTEMS EVALUATED

Wet-seal™ Prime Coat 200 over-coated with Enviro-coat DS 411, for external use

Wet-seal™ Prime Coat 200 over-coated with Enviro-coat IS 511, for internal use

CERAMIC TILE ADHESIVES EVALUATED

1. ABA Abaflex - polymer modified cementitious type
2. ABA Glueplus - rubber modified cementitious type
3. ABA Powerstik – polymer modified cementitious type

TEST PROCEDURES

ABA Abaflex, ABA Powerstik, and ABA Glueplus adhesives were evaluated in their Ardex branded equivalents for wet adhesion properties in accordance with AS4992.1–2006, where Wet-seal™ Enviro-seal membranes were applied over concrete substrates.

CONDITIONS

- The installation of waterproofing membranes must comply with AS3740-2004 - waterproofing of wet areas within residential buildings and AS 4654.2-2009 – waterproofing membrane systems for exterior use above ground level.
- The installation of tiles must conform to the requirements of AS 3958.1-2007
- The waterproofing installation must be carried out by Wet-seal™ accredited tradespersons, according to Wet-seal™ specifications.
- All products recommended in the system shall be used in strict accordance with the manufacturer’s instructions and are to be within the shelf life outlined on the packaging.
- All products recommended in the system must be supplied to the site in unopened sealed containers and shall be stored in accordance with manufacturer’s instructions.
- Ardex warrants satisfactory adhesion of tiles to Wet-seal™ Enviro-coat membranes installed strictly as per guidelines provided in this document.
- The Wet-seal™ Enviro-coat membranes shall be allowed to cure for a minimum of 48 hours before proceeding with subsequent coatings.
- If Wet-seal™ Enviro-coat membrane coatings are allowed to dry for longer than 7 days, remove all contaminants from surface before proceeding with tiling.



RESULTS

The test tile adhesives representing, ABA Abaflex, ABA Powerstik, and ABA Glueplus produced wet adhesion results conforming to AS4992.1 - 2006, Tile Adhesive Requirements.

The curing duration of the membrane after application to the substrate is crucial and plays a part in the degree of bond strength achieved over the Wet-seal™ Enviro-coat membranes. As such ARDEX recommends the membranes to cure for a minimum of 48 hours before tiling.

CONCLUSION

ABA Abaflex, ABA Powerstik and ABA Glueplus tile adhesives are recommended for the installation of ceramic tiles over Wet-seal™ Enviro-coat waterproofing membranes, when applied to concrete substrates, after the membranes have been allowed to cure for a period of 48 hours.

ABA Glueplus and ABA Powerstik tile adhesives shall be used in external applications which are protected such as covered concrete verandahs and compressed sheet clad decks.

The conclusions drawn within this bulletin are limited to the waterproofing systems tested. Any product formulation or installation changes in the Wet-seal™ products will render this recommendation null and void.

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 REVIEW

Request by Wet Seal to modify the typographic spelling of their products to match their tradenames.

REVISION REQUIRED

Revision required 24 months from issue.

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