



TECHNICAL BULLETIN – TB126

TILING OVER CHEVALINE DEXX MEMBRANE SYSTEMS

22nd July 2024

INTRODUCTION AND SCOPE

Equus Industries Ltd, NZ, markets a waterproofing membrane for wet areas, decks, and roofs. The membrane consists of a water-borne acrylic liquid designed to form a laminate with glass fibre matting.

ARDEX has been requested to recommend a suitable adhesive to be used in conjunction with this membrane system to conform to AS/NZ standards. Relevant testing has been carried out to confirm these recommendations.

Equus Industries Ltd supplied two pre-prepared samples of the membrane applied to concrete pavers. One was nominated as suitable for internal purposes, while the second was nominated for external purposes.

QUALIFICATIONS

The results obtained and the advice contained within this bulletin are based on the testing carried out on the pre-prepared samples provided by Equus Industries Ltd.

The accuracy of the test results on which these recommendations are based has been limited by the size of the samples of Chevaline Dexe Membrane provided and by the time duration possible for long-term performance testing.

TESTING PROCEDURES

The two samples of Chevaline Dexe Membrane were prepared by coarse sanding half the panel with 40-grit emery paper. 50mm x 50mm test specimens were then adhered to the various membrane sections using various Ardex tile adhesives.

The adhered samples were allowed to cure at ambient temperatures for 14 days before half the test specimens were tested for tensile bond strength.

The remaining test specimens were then immersed in water for 14 days before determining the tensile bond strength.

The results were then assessed in consideration of the 0.5MPa minimum bond strength required of AS/NZ4992.

RESULTS & CONCLUSIONS



ARDEX Optima produced satisfactory performance in conjunction with the Chevaline Dextx waterproofing membrane.

When applied over the internal grade of membrane, both adhesives achieved results conforming to the standard, whether the surface was sanded or not.

For the external grade of membrane, it is recommended that the adhesives be applied only to sanded surfaces.

In all instances, the tensile bond strengths achieved improved significantly when the surfaces were coarse sanded using 40-grit emery paper, and this was emphasized after immersion conditioning.

In the vast majority of instances, the bond strength obtained for the adhesive is lower than actual since failure occurred within the Chevaline Dextx membrane at the fibreglass layer.

Based on the results achieved, one ARDEX ceramic tile adhesive was found to produce adhesion results conforming to AS/NZ4992 under both wet and dry conditions.

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.

Australia: 1300 788 780

New Zealand: 643 384 3029

Web: www.ardexaustralia.com

email: technical.services@ardexaustralia.com

Address: 2 Buda Way, Kemps Creek NSW 2178