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# ARDEX WPM 1500

## PRODUCT TECHNICAL STATEMENT



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### SCOPE OF USE

ARDEX WPM 1500 is designed to be used as a single layer membrane in horizontal or vertical applications for water proofing below ground structures. They are primarily pre-applied to the outside of a foundation or basement to prevent water ingress. ARDEX WPM 1500 gives greater protection during the installation of reinforcing steel and gives a mechanical key to newly poured concrete.

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### MANUFACTURED BY

ARDEX WPM 1500 is manufactured in Christchurch by ARDEX New Zealand Limited.

32 Lane Street, Woolston, Christchurch - 0800 227 339 - ardexspec@ardexnz.com

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### DATE OF ISSUE

1st October 2018

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### COMPLIES WITH THE NEW ZEALAND BUILDING CODE

#### **B2 DURABILITY**

Performance B2.3.1(a) Not less than 50 Years

ARDEX WPM 1500 is a suitable material for tanking (Butyl) and is expected to have a minimum life of 50 years provided it is installed in accordance with the technical literature.

#### **E2 EXTERNAL MOISTURE**

Performance E2.3.3 Walls, floors, and structural elements in contact with, or in close proximity to, the ground must not absorb or transmit moisture in quantities that could cause undue dampness, damage to building elements, or both.

ARDEX WPM 1500 is considered impervious and has been independently verified to have a vapour flow resistance greater than 1700 MN s/g

NZS 3604:2011 and NZS 4229:2013 require DPMs to have a vapour flow resistance of no less than 90 MN s/g

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## **F2 HAZARDOUS BUILDING MATERIALS**

Performance F2.3.1 Materials must not present a health risk to people.

ARDEX WPM 1500 is inert and meets this requirement.

Note: Basement designs solutions must be considered and alternative solutions- they are not covered by NZBC E2/AS1

## **LIMITATIONS**

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- Must be installed to the ARDEX technical literature.
- ARDEX WPM 1500 must be protected from UV.
- Must be installed by an ARDEX approved installer.
- Construction joints must be adequately detailed.
- Top edge must be terminated mechanically and sealed.

## **TEST CERTIFICATES INDEPENDENT FROM ACCREDITED LABORATORIES**

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### **BRANZ**

Test Report DC 2428

- AS/NZS 4201.6 Water absorption
- ASTM E96 Water vapour transmission

Test Report DC 2893/6

All tests applicable to AS 4654.1 including:

- ASTM D6207 Dimensional stability
- AS/NZS 4858 Heat Ageing
- CSIRO Moving joint test-Cyclic Movement
- AS 4654.1 Table A4 Temperature resistance, tensile strength and durability

### **MERCADI GMBH**

Test Report 1318

- DIN 53380/ISO15105 Gas Permeability-Methane

### **AKRON RUBBER DEVELOPMENT LABORATORY**

Test report PN 138333-A/138333-B

- ASTM D1434-82 Procedure V
- ASTM D471-12A Gas permeability- Hydrogen Sulphide

### **CZECH TECHNICAL UNIVERSITY**

Test report 124023/2016

- K124/02/95 Radon diffusion coefficient

The above test reports are available on request and upon completion of signing a confidentiality contract.

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## UNIQUE FEATURES

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ARDEX WPM 1500 has been tested and passed exposure tests to Hydrogen Sulphide, Methane and Radon Gases and is suitable for use in geothermal areas.

ARDEX WPM 1500 is suitable for locations up to 70 metres of hydrostatic pressure.

## MAINTENANCE

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There are no maintenance requirements for these membranes.

## WARRANTIES AVAILABLE

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20 YEARS ARDEX system warranty

- Installed by an approved ARDEX installer

EXTENDED ARDEX system warranty including workmanship\*

- Installed by an approved ARDEX installer

\*Terms and conditions apply. Contact ARDEX specification managers for more information.

ARDEX system warranties are subject to onsite ARDEX quality assurance procedures and project registration.

## PRODUCT DATASHEET

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### [ARDEX WPM 1500](#)

The technical details, recommendations and other information contained in this product technical statement are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable New Zealand & Australian Standards, our instructions and recommendations and only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program. Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request. You should make yourself familiar with them.

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### Toll Free Technical Services:

1800 224 070 (Australia)

0800 227 339 (New Zealand)

