



ARDEX WPM 1500

WeldTec Below Ground Tanking Membrane

Tested for use in Geothermal Areas

Weldable Waterproofing Membrane Suitable for Below Ground Tanking

Suitable for tanking foundations, podiums, basements and other below ground waterproofing applications

Allows maximum use of confined space- Pre Applied

Very good moisture barrier

Radon and Methane gas diffusion

High resistance to chemicals and hydrostatic head

Compatible with steel and metals

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ARDEX WPM 1500

WeldTec Below Ground Tanking Membrane

PRODUCT DESCRIPTION

ARDEX WPM 1500 is a fleece-lined, weldable tanking membrane for below ground applications. It is generally applied prior to concrete being cast against it. ARDEX WPM 1500 is fully bonded which allows resistance against lateral water migration.

FEATURES AND BENEFITS

- Accommodates structural movements
- Resistant to chemical attacks
- Withstands thermal shocks
- High elongation with excellent crack bridging capabilities
- Forms a unique continuous waterproofing membrane
- Not reliant on confining pressures, hydration or tape seams
- Welded detailing creates very strong watertight laps
- Resists tearing, flex cracking, bubbling and abrasions
- Versatile vapour barrier

USE

ARDEX WPM 1500 is used as a single layer membrane in horizontal or vertical applications for waterproofing for below ground tanking. It is primarily applied to the outside of a sub-structure of a building, such as a foundation or basement to prevent water ingress.

Other forms of tanking where ARDEX WPM 1500 can be used include under floor slabs, behind masonry walls, the lining of substrates of in situ or precast concrete; retaining walls, lift shafts, tunnels, living roofs and planter boxes.

DURABILITY

ARDEX WPM 1500 when fixed according to ARDEX instruction will meet the New Zealand Building Code requirements of B2.3.1 (a) 50 years.

PACKAGING

Roll size: 1.4m x 20m

Roll weight: Approximately

Thickness: 1.5mm

Each roll is packed in a polythene wrapper trademarked ARDEX WPM 1500.

ADHESIVES FOR USE WITH ARDEX WPM 1500

ARDEX WA 98 - Solvent Based waterproofing adhesive.

INSTALLATION

The application of ARDEX WPM 1500 should be carried out by an approved ARDEX Applicator.

Note: A LBP is required to carry out Restricted Building Work. A LBP must do or supervise this work. They must work within the scope of their licence class.

Installation shall be undertaken in accordance with all relevant technical information related to the selected installation method, including information contained within the ARDEX specification.

Acceptable substrates to which ARDEX WPM 1500 is to be installed must be properly prepared prior to membrane installation.

All surfaces must be dry, clean, smooth, and free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

ARDEX WPM 1500 is normally fully bonded to the prepared substrate with side laps of 100mm and end laps of 150mm. Overlaps shall be sealed by using a hot air welder.

ARDEX WPM 1500 may be used in various combinations to produce a variety of specifications tailored to suit the individual waterproofing need.

The exact specification will depend on functional and economic requirements. Advice should be sought for suitable specification from ARDEX.

ARDEX Waterstops should be considered for use in all construction joints.

PRECAUTIONS AND LIMITATIONS

ARDEX WPM 1500 is not suitable as a trafficable surface. It is the responsibility of the main building contractor to ensure all sub-trades likely to be working in the vicinity of the membrane are aware that a waterproofing membrane has been installed and all care must be taken to protect the membrane from damage.

ARDEX WPM 1500 must be protected from UV.

TECHNICAL DATA

The technical data shown is the average results of the Tests, Measurements and Trials carried out on ARDEX WPM 1500 Waterproofing Membrane.

CHARACTERISTICS	TEST METHOD	UNITS	NOMINAL VALUE
Colour			Grey/black
Thickness	EN 1849-1	mm	1.5
Width	EN 1848-1	m	1.40
Roll length		m	20
Low temperature flexibility	ASTM D1970	°C	-29
Resistance to Hydrostatic head	ASTM D5385	kPa (no failure)	69
Elongation	ASTM D412	%	500
Tensile Strength	ASTM D412	MPa	8
Puncture Resistance	ASTM E96B	N	600
Peel Adhesion	ASTM D903 modified	N/mm	0.60
Lap Peel Adhesion	ASTM D1876	N/mm	7
Permeance to water vapour transmission	ASTM E96B	g/dm ²	0.04
Radon Diffusion Coefficient	K124/02/95	m ² /s	1.6 x 10
Watertightness to liquid water	EN 1928		Pass
Durability of watertightness against chemicals	EN 1847 EN 1928		Pass
Resistance to tear (nail shank)	EN 12310-1	N	351
Bitumen compatibility	EN 1548 EN 1928		Pass
Joint Strength	EN 12317-2	N/50mm	380

DISCLAIMER

The technical details, recommendations and other information contained in this data sheet 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 Standard, 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. © ARDEX New Zealand Ltd. All aforementioned products are the trade marks of ARDEX New Zealand Ltd.