



ARDEX WPM 712

1.2mm Weldable Roofing Membrane

Welded laps and seams for fast installation

Excellent resistance to ageing from heat, sunlight and ozone

Excellent resistance to atmosphere agents

Excellent resistance to geothermal gas including hydrogen sulphide and methane

Excellent flexibility at lower temperatures

Suitable for potable water collection

No significant maintenance required

Available in black and grey

1.2mm gauge

Manufactured in New Zealand

WeldTec.TM

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1.2mm Weldable Roofing Membrane

DESCRIPTION

ARDEX WPM 712 is a 1.2mm weldable waterproofing membrane with properties which resist ageing from heat, sunlight and ozone. It has excellent gas impermeability and toughness and remains flexible at low temperatures and is suitable in all climatic zones.

ARDEX WPM 712 is part of the ARDEX WeldTec range of products that is installed with heat welded laps and seams. The welding process ensures a fast installation and added security.

USES

ARDEX WPM 712 is ideal for use as a single layer membrane in horizontal or vertical applications for waterproofing decks and roofs.

SUBSTRATES

Concrete, Plywood, Insulation Board, Orientated Strandboard, CFC Sheet, Timber, Galvanised Metal, Zincalume, Polyurethane Foams.

For further substrate types please consult ARDEX Technical Department.

SURFACE PREPARATION

Substrates need to be clean, smooth, dry and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the membrane. All surface voids greater than 5mm wide shall be properly filled with an acceptable fill material.

Refer to the relevant ARDEX Substrate Specification document for further information.

PRIMING

Prior to the application of ARDEX WPM 712 in cases of extreme porosity the surface may require priming with ARDEX WA 98A + ARDEX WPM 290 50/50 Blend. Coverage of primer will depend on the porosity of the substrate.

INSTALLATION

The installation of ARDEX WPM 712 should be carried out by an approved ARDEX Installer.

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

ARDEX WPM 712 is normally fully bonded to the prepared substrate with side and end laps of 40mm. Overlaps are heat welded at 460°C with a Leister TRIAC AT hand-held hot air welder with a 40mm wide slot nozzle.

If required, ARDEX WPM 712 can be bonded to itself or certain surfaces using ARDEX Seam Tape. Please read the appropriate datasheet for more information.

ARDEX WPM 712 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.

Note: A Licensed Building Practitioner (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.

STORAGE

ARDEX WPM 712 has an indefinite shelf life when stored in good conditions, between 5°C and 30°C. Store rolls horizontally in dry conditions out of direct sunlight. Store away from sources of puncture and physical damage. Store away from ignition sources and open flame.

COVERAGE

ARDEX WPM 712 comes in a roll of 28m².

The actual coverage achieved in practice is affected by installation technique, specifics of building design, and substrate differences.

PACKAGING

ARDEX WPM 712 comes in rolls of 1.4m x 20m x 1.2mm.

Product Name	Colour	Product Code
ARDEX WPM 712 G	Dove Grey	32339
ARDEX WPM 712 B	Black	32581

TECHNICAL DATA

Characteristics	Test Method	Nominal Value	Result
Abrasion Resistance	AS 1580.403.2	0.04mm	Regular vehicle traffic
Bond Strength	ASTM C794	Concrete: 25N Plywood: 18N	
Cyclic Movement	CSIRO Moving Joint Test		Pass
Dimensional Stability	ASTM D6207	< 1mm	Pass
Durability	AS 4654.1 Table A4		Pass
Elongation at break	AS4654.1 Appendix A	> 3.93 MPa > 500% Elongation	Class III
Heat Ageing	AS/NZS 4858	> 6.33 MPa > 500% Elongation	
Hydrogen Sulphide resistance	EN 1847		Pass
Hydrogen Sulphide permeability	ASTM D1434	2.72156E-06 cm ³ *cm/ (cm ² *s*atm))	
Ozone Resistance	ASTM D1149		Pass
Tear Strength	ASTM D624		Pass
Temperature Resistance	AS 4654.1 Clause 2.6		Pass
Tensile Strength	AS 4654.1 Table A4	> 3.93 MPa > 500% Elongation	
Ultraviolet Resistance	AS 4654.1 Table A4	After 4224 hours QUV exposure	Pass
Use with Potable Water	AS/NZS 4020:2005		Pass
Water absorption	AS 3558.1	0.05%	
Water vapour transmission rate	ASTM E96	0.07 g/m ² /24 hours	

PRECAUTIONS

ARDEX WPM 712 is non-hazardous in normal usage, however good hygiene practices should be followed. Consult the relevant Safety Data Sheets for further information.

ARDEX WPM 712 is not suitable for consistent foot traffic, just maintenance foot traffic. If a foot trafficable membrane is required use ARDEX WPM 715.

For the latest technical or health and safety information on this product, consult the current product or safety data sheet online at: www.ardex.co.nz

Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.

Toll Free Technical Services:
1800 224 070 (Australia)
0800 227 339 (New Zealand)

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 & 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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