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# ARDEX Butynol®

## Butyl Rubber Roofing Membrane

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Manufactured in New Zealand

Trusted 50+ years of service in New Zealand and Oceania BRANZ

Appraised (No. 436)

E2/AS1 Acceptable Solution

Potable water certified

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

No significant maintenance required

Available in a variety of gauges

Available in a variety of colours



**BRANZ Appraised**  
Appraisal No.436 [2022]

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# ARDEX Butynol®

## Butyl Rubber Roofing Membrane

### PRODUCT DESCRIPTION

ARDEX Butynol® is a synthetic butyl rubber 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.

### USES

ARDEX Butynol® is used as a single layer membrane in horizontal or vertical applications for waterproofing decks, roofs and gutters. It is primarily applied to the outside of a sub-structure of a building to prevent water ingress.

Other places where ARDEX Butynol® 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/warm roofs, reservoirs and planter boxes.

### SUBSTRATES

Concrete, Plywood, Insulation board, Orientated Strandboard, CFC Sheet, Timber, Galvanised Metal, Zincalume. 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.

Laying of ARDEX butynol membranes over checked or delaminated plywood is unacceptable. Refer to the relevant ARDEX Substrate Specification document for further information.

### INSTALLATION

The installation of ARDEX Butynol® 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.

**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.

### PRIMING

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

ARDEX Butynol® is normally fully bonded to the prepared substrate with side and end laps of 50mm. Overlaps shall be sealed using the ARDEX Seam Tape/Seam Primer system.

ARDEX Butynol® 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.

### STORAGE

ARDEX Butynol® 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.

### PACKAGING

ARDEX Butynol® comes in rolls of 1.4m x 17.86m with varying gauges. Each roll covers 25m<sup>2</sup> except 2.25mm gauge which is 12m<sup>2</sup>

### TECHNICAL DATA

Characteristics	Test Method	Nominal Value
Specific Gravity	ASTM D297	1.20 ± 0.05
Hardness IRHD	ASTM D1415	65 ± 5
Tensile Strength	ASTM D412	8.3 MPa min
Modulus at 300% elongation	ASTM D412	4.15MPa min
Elongation at break	ASTM D412	300% min
Heat Ageing	7 days at 115°C	Pass
Tensile Retention	ASTM D412	70% min
Elongation Retention	ASTM D412	70%min
Tear Strength	ASTM D624	26kN/m
Ozone Resistance	ASTM D1149 7 days at 40°C in 50pphm ozone	No visible cracks
Water Absorption by mass by volume	ASTM D471	1.65% 0.72%
Water Permeability Vapour Flow Resistance Vapour Flow Rate	ASTM E96-92 (MNs/g) (g/m <sup>2</sup> d)	12414 0.013

**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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