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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)

CodeMark Certified

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 [2017]

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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, Zinalume.

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.

### 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>

| Type              | Weight |
|-------------------|--------|
| 1.0mm Black       | 30kg   |
| 1.2mm Dove Grey   | 32kg   |
| 1.5mm Black       | 45kg   |
| 1.5mm all colours | 47kg   |
| 2.25mm Black      | 32kg   |

### 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%<br>0.72%    |
| Water Permeability                 | ASTM E96-92                               |                   |
| Vapour Flow Resistance             | (MNs/g)                                   | 12414             |
| Vapour Flow Rate                   | (g/m <sup>2</sup> d)                      | 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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