



ECO BUTYNOL®

Fibre-backed Rubber Membrane System

E2/AS1 Acceptable Solution

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ECO BUTYNOL SPECIFICATION

Butynol® synthetic rubber with properties which resist ageing from heat, sunlight and ozone. Polypropylene filaments are welded on to one side of the membrane for better wetting by water based adhesives. It has excellent gas impermeability and toughness and remains flexible at low temperatures.

Eco Butynol® is marketed by ARDEX as a warranted roofing and tanking product using solvent free water based adhesive, ARDEX WPM09A and fixed by their trained and experienced approved Applicators.

BUTYNOL® MATERIAL SPECIFICATIONS

(For the rubber part) Our requirements for long term warranty necessitate that the rubber part of Eco Butynol® meets these typical technical requirements:

Specific Gravity to ASTM D297	1.20±0.05
Hardness IRHD to ASTM D1415	65±5
Tensile Strength to ASTM D412	8.3 MPa min
Modulus at 300% elongation to ASTM D412	4.15 MPa min
Elongation at break to ASTM D412	300% min
Heat Ageing (7 days at 115° C)	
Tensile Retention to ASTM D412	70% min
Elongation Retention to ASTM D412	70% min
Tear Strength to ASTM D624	26kN/m
Ozone Resistance to ASTM D1149	No visible cracks (7 days at 40°C in 50pphm ozone)
Water Absorption to ASTM D471	1.65% (by mass)
Water Permeability to ASTM E96-92	0.72% (by volume)
Vapour Flow Resistance	12414 (MNs/g)
Vapour Flow Rate	0.013 (g/m2d)

Note: Interesting comparable figures for water permeability are –

Polythene 156, Asphalt 1830, P.V.C. 4900.

K Values on 1mm Butynol® sheeting

K Value (Thermal Conductivity) 7.4×10^3
Cal/cm/sec/deg C.

Conductivity Data on 1mm Butynol® sheeting

Resistance/m² Ω /m² = 0.6816 on 9.3 volts.

ECO BUTYNOL® GAUGES

Standard 1.0mm – For roofs, gutters and decks with protection.

1.2mm – For roofs.

1.5mm – For roofs and walk out decks.

2.25mm – Heavy Duty

Factory welded panels in all gauges can be custom made.

PACKAGING

Eco Butynol® is packaged in rolls of nominal 1.4m width and 17.86m long. Each roll is packed in polythene wrapper trademarked Eco Butynol® with thickness identified. Coverage 25m² except 2.25mm gauge which is 12m².

Gauges available are:

1.0mm black. Weight: nominal 30kg

1.5mm black. Weight: nominal 45kg

2.25mm black. Weight: nominal 32kg

1.2mm dove grey. Weight: nominal 32kg

1.5mm all colours. Weight: nominal 47kg

ADHESIVES AND SOLVENTS

ARDEX WPM 09A Adhesive is specially formulated for all Eco Butynol® applications. Supplied in 15L plastic pails.

BUTYNOL® SEALANT

Available in tubes for caulking guns.

SEAM PRIMER

Seam Primer is specially formulated for use with Seam Tape. Applied with scrubber pads. Available in 4 and 1 litre cans.

SEAM TAPE

Supplied by ARDEX in 50mm x 30.5m rolls (6 to a carton). Roofs with a pitch of less than 5°, all coloured membranes and all guttering and areas subjected to periodic ponding require special lap bonding. All coloured membranes, irrespective of pitch require special lap bonding.

DETAIL TAPE (uncured)

A malleable exterior tape for flashing exterior corners etc. 150mm x 30.5m rolls.

FLASHING TAPE

A malleable tape for moulding in gussets, pipe flashings and awkward situations. Supplied in 100mm x 5m rolls. Flashing tape must not be left exposed. A cover strip of Butynol® or detail tape must be applied over flashing tape to finish.

ADHESIVES AND SOLVENTS FOR USE WITH ECO BUTYNOL

WPM 09A The Standard contact brushing, spray grade and rolling adhesive for fixing to the substrate. (Pitch 5° and above)

Seam Primer A water resistant primer, used with seam tape for general lap bonding.

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Note: Temperature and Humidity

1. As new substrate materials continually appear on the market, consult ARDEX for approval of their use with Eco Butynol®.
2. For all lap joints, ARDEX Seam Tape and Seam Primer must be used on all joints.
3. Do not use in temperatures less than 6°C.

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