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# WPM 750 UNDERTILE BUTYNOL®

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Rubber Membrane Waterproofing System

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ARDEX Australia Pty Ltd  
20 Powers Road  
Seven Hills NSW 2147  
Tel: (02) 9851 9199  
Fax: (02) 9674 5621  
Email: [techinfo@ardexaustralia.com](mailto:techinfo@ardexaustralia.com)  
Internet: [www.ardex.com](http://www.ardex.com)

ARDEX New Zealand Ltd  
32 Lane St, Woolston  
Christchurch, New Zealand  
Tel: (03) 373 6900  
Fax: (03) 384 9779  
Internet: [www.ardex.com](http://www.ardex.com)

# WPM 750 UNDERTILE BUTYNOL®

## Rubber Membrane Waterproofing System

### UNDERTILE BUTYNOL® SPECIFICATION

Undertile Butynol® is made up of synthetic rubber with properties which resist ageing from heat, sunlight and ozone and is heat weldable. Polypropylene filaments are welded onto both sides of the membrane for better wetting by water based adhesives. It has excellent gas impermeability and toughness and remains flexible at low temperatures.

Laps and corners are to be heat formed and/or welded. Tiling can be done directly on the membrane after 60 minutes with common ARDEX tiling adhesives like X77, X56 STS8/E90, Quickbond/Abalastic, 2 part Optima or ABAFLEX.

Undertile Butynol® is marketed by ARDEX as a warranted undertile waterproofing product using solvent free adhesives and fixed by their trained and experienced approved Applicators.

Specific Gravity to ASTM D297	1.30±0.05
Hardness IRHD to ASTM D1415	65±5
Tensile Strength to ASTM D412	4.86 MPa min
Elongation at break to ASTM D412	300% min
Water Absorption to ASTM D471 (for 1mm Butynol®)	1.65% (by mass) 0.72% (by volume)
Water Permeability to ASTM E96-92	
Vapour Flow Resistance (for 1mm Butynol®)	12414 (MNs/g)
Vapour Flow Rate (for 1mm Butynol®)	0.013 (g/m <sup>2</sup> d)

### UNDERTILE BUTYNOL® MATERIAL SPECIFICATIONS

Our requirements for long term warranty necessitate that the Undertile Butynol® meets these typical technical requirements:

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):  $7.4 \times 10^3$   
Cal/cm/sec/deg C.

### UNDERTILE BUTYNOL® GAUGES

Standard 0.5mm – For undertile waterproofing

### RESISTANCE

Undertile Butynol® resists tearing, flex cracking, bubbling and abrasion. It is extremely strong, has a long life and is versatile.

### PACKAGING

In rolls of nominal 1.4m width and 20m long. Each roll is packed in polythene wrapper trademarked Undertile Butynol®

### OTHER SUBSTRATE TYPES

Fibre cement compressed sheet, closed cell polyurethane

foam, wet wall linings i.e. Gib Aqualine, VillaBoard.

### TYPICAL ARCHITECTURAL UNDERTILE BUTYNOL® SPECIFICATION

#### 1. Preliminary

Refer to the Preliminary & General Clauses of this specification and to the General Conditions of Contract which are equally binding on all trades. This section of the specification shall be read in conjunction with all other sections.

#### 2. Scope

This section of the contract consists in general of the provision and laying of the Undertile Butynol® in wet areas.

#### 3. Workmanship

The whole of the work shall be carried out by skilled tradesmen using adequate and proper equipment and methods in accordance with best trade practice, and following the specifications methods and recommendations as laid down by the manufacturers.

#### 4. Sub-contractors

The work included in this section of the contract shall be carried out by a firm of waterproofing experts conversant with and specialising in the supply and fixing of this materials and shall be a firm approved by ARDEX.

#### 5. Warranty

When laid by an approved Applicator in accordance with ARDEX's specifications, a written material warranty of up to 20 years is available. It is the responsibility of the approved Applicator to confirm proper installation and to request ARDEX to issue a material warranty on behalf of the customers following completion of installation. ARDEX is not responsible for any costs arising from installation and does not provide any warranty other than where a written ARDEX material warranty has been issued.

#### 6. Materials

##### 6.1 Undertile Butynol® Membrane

a. Shall be 0.5mm thick Undertile Butynol® in all wet area surfaces, where membrane is to be overlaid with tiles

##### ADHESIVES FOR USE WITH UNDERTILE BUTYNOL®

WPM 09A	The standard contact brushing, spray grade and rolling solvent free adhesive for fixing to the substrate. Supplied in 20L plastic containers.
WPM 09C	Catalyst to assist adhesion in adverse conditions.

#### DURABILITY

Undertile Butynol® when fixed according to ARDEX instruction will meet the NZBC requirements of B2.3.1(b) 15 years.

# WPM 750 UNDERTILE BUTYNOL®

## Rubber Membrane Waterproofing System

### PRODUCT WARRANTY

When laid by an approved Applicator in accordance with ARDEX's specifications, a material warranty for up to 20 years is available. ARDEX is not responsible for any costs arising from installation of the Membrane and does not provide any warranty other than where a written ARDEX material warranty has been issued.

### WORKMANSHIP

A warranty for workmanship shall be provided directly by the approved Applicator. The period and terms of the workmanship warranty shall be determined by the conditions of the contract or the approved Applicator.

### SUBSTRATE SPECIFICATION

#### Plywood & Timber

Substrates must be dry when Undertile Butynol® is applied. The plywood and timber substructure shall have a maximum moisture content of 20% when Undertile Butynol® is adhered.

**NOTE:** The use of LOSP (Light Organic Solvent Preservative) treated plywood must NOT be used under Undertile Butynol® in any circumstances or conditions.

#### New Concrete

Must be cured for a minimum of 28 days and all curing compounds removed prior to application. A reduction in cure time can be achieved by utilising the ARDEX HydrEpoxy System (consult ARDEX Technical Department for details)

#### Old Concrete

Must be clean from any contaminants prior to application

### 6.2 Adhesives

Shall be recommended by ARDEX specially formulated for Undertile Butynol® and suitable for the particular application and the relevant temperature and conditions applicable.

### 7. Laying of Undertile Butynol®

The Undertile Butynol® installer shall check the substrate before laying any membrane to ensure that the surface is completely sound, screw fixed to specifications: screw heads flush, sheets spaced to provide for thermal movement or shock.

### 8. Completion

On completion carefully and thoroughly clean off and remove all scraps and other rubbish from finished surfaces and leave in tidy order.

### 9. Extent of Work

Observe the foregoing specification and supply and lay Undertile Butynol® sheeting to all wet areas as shown and detailed in the drawing and in accordance with AS/NZS3740.

Failure to comply with the above specifications will result in all warranties being null and void.

### LAYING SPECIFICATION

The sub-contractor for the work called for in this trade will be a

Company of Person approved by ARDEX.

The approved installer shall examine all drawings and provide for the surface to which Undertile Butynol® is to be fixed shall be clean, smooth, dry and free from sawdust, grit or sharp objects. Membrane laying shall not start until defects have been corrected.

On completion the installer will provide the owner with a Workmanship Warranty and obtain from ARDEX a Materials Warranty.

Failure to comply with the above specifications will result in all warranties being null and void.

### INSTALLATION

Roll out ARDEX WPM 750 Undertile Butynol® and cut to the measured length. Smooth ARDEX WPM 750 Undertile Butynol® on contact to minimise air entrapment beneath the membrane.

Floor sheets of ARDEX WPM 750 Undertile Butynol® must extend up the wall at least 150mm. Make sure the Undertile Butynol® is laid tightly into all corners. Wall sheets of Undertile Butynol® should overlap the 150mm upstand. Weld seams and laps with the Leister Triac S Hot Air Gun. Roll with a rubber roller to ensure seams and laps are secure.

#### Walls, internal corners & transitions

Apply the ARDEX WPM 750 Undertile Butynol® membrane 1800mm up the walls or to a height of 150mm above the shower rose. For unenclosed showers the membrane must extend a minimum of 1500mm out from the shower rose.

### PROTECTION

ARDEX WPM 750 Undertile Butynol® is not suitable as a trafficable surface.

ARDEX WPM 750 Undertile Butynol® is compatible with undertile heating systems. For electric undertile heating, the wire must be laid under the membrane.

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. The tiler must lay tiles in accordance with best practice guidelines.

#### ARDEX Australia Pty Ltd

Technical Services Toll Free: 1800 224 070

NSW Ph (02) 9851 9100 Fax (02) 9838 7970

QLD Ph (07) 3817 6000 Fax (07) 3881 3188

VIC/TAS Ph (03) 9308 9255 Fax (03) 9308 9332

SA Ph (08) 8268 2511 Fax (08) 8345 3207

WA Ph (08) 9256 8600 Fax (08) 9455 1227

#### ARDEX New Zealand Ltd

Technical Services Toll Free: 0800 227 339

Auckland Ph (09) 5800 005 Fax (09) 2967 689

Wellington Ph (04) 568 5949 Fax (04) 568 6376

Christchurch Ph (03) 373 6900 Fax (03) 384 9779

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