



ARDEX WPM 117

Self-Adhesive Membrane

Compliant to AS4654.1

No open flame used during application

Designed for use on heat sensitive substrates

2mm SBS/APP Modified Bituminous Membrane

ARDEX Australia Pty Ltd
20 Powers Road
Seven Hills NSW 2147
Phone: 1300 788 780
Email: technicalservices@ardexaustralia.com
www.ardexaustralia.com

ARDEX New Zealand Ltd
15 Alfred Street, Onehunga Auckland,
New Zealand 1061
Phone: 0800 227 339
Email: info@ardexnz.com
www.ardex.co.nz

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PRODUCT DESCRIPTION

ARDEX WPM 117 is a self-adhesive bituminous sheet applied membrane. Product innovation is the key feature that distinguishes ARDEX WPM 117 from traditional torch applied or fastened systems.

FEATURES

- Compliant to AS4654.1
- Highly resistant to acids, alkalis, or other pollutants
- Cold applied and installed without the use of naked flames
- Bitumen modified sheet membrane - SBS self adhesive lower surface and APP top surface

USES

ARDEX WPM 117 is used within multi-layer waterproofing systems. ARDEX WPM 117 can be used for both horizontal or vertical applications. Ideal for general waterproofing when, due to the type of operation or materials, the use of torch/flame must be avoided (e.g. insulation panels, timber etc.)

WPM 117 provides a fast and long-lasting waterproofing membrane on materials such as metal, wood, zinc, aluminium, cement or clay tiles, concrete, stone, asbestos cement and a wide variety of plastic products: polyethylene, polypropylene, fibreglass, polycarbonate and some PVC types. The membrane can be installed directly on insulation panels, and within environments where the use of naked flames is prohibited.

SUBSTRATE PREPARATION

By way of mechanical methods and vacuum cleaning as necessary, remove all dirt, dust, curing compounds, oils, grease, surface sealers, and any other contaminants prior to application. Prepare surface to leave sound, clean, free from sharp edges, loose or other materials which may damage the membrane.

Damaged concrete between 2mm-30mm can be treated with ARDEX A46. Spalling concrete must be treated accordingly with the ARDEX Concrete Repair range such as ARDEX BR 345, please review the respective product data sheets on treating spalling concrete.

SUBSTRATE PRIMING

Prior to the application of ARDEX WPM 117 all prepared concrete surfaces (excluding insulation board) should be primed with ARDEX WPM 240 at a rate of 5m²–6m² per litre and allowed to dry. Coverage rate will depend on the porosity of the substrate being treated.

Priming is not generally required for direct application onto insulation board. Ensure the insulation board is installed in accordance to manufactures instructions and the surface is clean, sound, and dry prior to the installation of ARDEX WPM 117.

When masonry or concrete substrate moisture content is measured at greater than 80% relative humidity (ASTM F2170) or exceeds 15g/m²/24hrs (ASTM F1869), a minimum single coat of ARDEX WPM 300 (HydrEpoxy) must be the nominated primer prior to ARDEX WPM 240. This is typically equivalent to 5% or greater moisture content from a digital non-destructive moisture meter, however Australian Standards must be followed. The ARDEX WPM 300 (HydrEpoxy) should be allowed to cure for at least 3 days prior to ARDEX WPM 240 application.

INSTALLATION

A layer of ARDEX WPM 117 should be completely unrolled and aligned. To ensure the correct shedding of water, the membrane must be installed from the lowest point of the area and work towards the highest point, in the direction of the slope. Remove the protective silicone film, using a suitable pressure roller ensure the membrane is firmly adhered to the prepared substrate, paying close attention to all overlaps, corners, connections, and edges. When applying the subsequent membrane layer, the heat will activate the adhesion of ARDEX WPM 117.

The ARDEX WPM 117 must be fully bonded with minimum side laps of 100mm and minimum end laps of 150mm.

PACKAGING

Roll size: 1m x 15m

Rolls per pallet: 25

STORAGE

All rolls of ARDEX WPM 117 should be stored in a covered area protected against sunlight and UV radiation. Rolls should be stored in a vertical position on a smooth floor so as not to damage the edges.

LIMITATIONS

ARDEX WPM 117 cannot be left UV exposed for extended periods. ARDEX WPM 117 should not be used as a stand alone waterproofing membrane, but must be used as part of a multi-layer waterproofing system. ARDEX WPM 117 is not designed as a trafficable membrane.

Before any substrate preparation, installation or finishing methods relating to ARDEX product are undertaken, please be aware of any potential risks and use appropriate PPE (personal protective equipment). This may involve contacting substrate manufacturers for Safety Data Sheets.

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TECHNICAL DATA

CHARACTERISTIC	TEST METHOD	NOMINAL VALUES
Length	EN 1848-1	15m
Width	EN 1848-1	1m
Thickness	EN 1849-1	2mm
Watertightness (A)	EN 1928	60kPa
Shear Resistance Longitudinal Transverse	EN 12317-1	500 N/50mm 400 N/50mm
Tensile Strength Longitudinal Transversal	EN 12311-1	650 N/50mm 500 N/50mm
Elongation at Break Longitudinal Transversal	EN 12311-1	35% 35%
Resistance to Impact	EN 12691	700mm
Resistance to Tearing (nail shank)	EN 12310-1	170N
Resistance to Static Loading Method A	EN 12730	10kg
Dimensional Stability Longitudinal Transverse	EN 1107-1 met A.	± 0.3%
Flexibility at Low Temperature	EN 1109	-25°C
Flow Resistance at Elevated Temperature	EN 1110	100°C
Self Adhesion Properties	ASTM D1000	20 N/10mm
Surface Finishes	Lower ¹ Top ²	Silicone Film Film PE - silicone Film (only overlap)

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

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SAFETY DATA

Avoid contact with skin and eyes. In case of contact with the eyes rinse with running water until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Wear protective gloves, clothing, face and eye protection. Suspected of causing cancer. This product is combustible. On combustion, may emit toxic fumes of carbon monoxide (CO). Avoid inhaling dust/ fume/ gas/ mist/ vapours/ spray. If fumes or combustion products are inhaled remove from contaminated area. Ensure adequate ventilation during application. Check with your local Council regarding the disposal of contents. Call the Poisons Information Centre on 131 126 (AUS) and 0800 764 766 (NZ) or call a doctor if you feel unwell. At times updates can occur to data. To ensure you have the most current technical and safety information please consult the latest data sheets found on the product page at www.ardexaustralia.com

GUARANTEE

ARDEX Australia Pty Ltd ("we" or "us") guarantees this product ("our goods") is free from manufacturing defects and will perform to any applicable specification published by us for 10 years from the date of purchase. Our liability under this guarantee is limited at our option to replacement of the product, repair of any damage to the immediate surface or area of application of the product, or compensation, in each case if we are satisfied loss or damage was due to a breach of this guarantee. This guarantee does not apply if damage or loss is due to failure to follow published instructions or any act or circumstance beyond our control, including shade variations and efflorescence. If you wish to make a claim under this guarantee you must notify us (ARDEX Australia Pty Ltd, 20 Powers Road Seven Hills NSW 2147; Toll Free: 1800 224 070; Email: technicalservices@ardexaustralia.com) and provide evidence of your purchase of the product within 30 days of any alleged loss or damage occurring. We reserve the right to ask you for satisfactory evidence of any alleged loss or damage. Any claim under this guarantee is at your cost. This guarantee is in addition to any rights or remedies you may have as a "consumer" under the Australian Consumer Law and to that extent you need to be aware that: "Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss of damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure".

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DISCLAIMER

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 Australian Standards. Our instructions and recommendations are only for the uses they are intended. Users are advised to confirm that this product is suitable for their application and conforms with the specifications of the system. 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 affect 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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This data sheet was issued in September 2023 and is valid for 3 years, in some instances a newer version may be published. Always refer to www.ardexaustralia.com for the latest technical data from ARDEX Australia Pty Ltd.