



ARDEX WPM 114

Shelterbit 4mm APP Vented Base Sheet

Vented Base Sheet for Shelterbit Membrane Systems

CE Certification GB06/69203

BRANZ Appraised (No. 463)

Codemark Certification (No. AQ-030516-CMNZ)

Venting base sheet for vapour control

Excellent Elongation and Flexibility

Thickness 4mm



BRANZ Appraised
Appraisal No.463 [2022]

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PRODUCT DESCRIPTION

ARDEX WPM 114 is an APP (Atactic Polypropylene) plastomeric type modified bitumen membrane vented base sheet, consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high-grade viscoelastic polymers.

ARDEX WPM 114 is suitable for application in all climatic zones, with excellent cold flexibility (-10°C) enabling an easy application and this also means the membrane is ideally suited for application in areas with harsh climates.

The exceptional elongation properties of APP, combined with the strength and dimensional stability of the reinforcing, provides an excellent waterproofing membrane in roofing applications. ARDEX WPM 114 is coated with a sanded polymeric film PE/PP, while the bottom surface has thermo-adhesive strips that activate with heat.

FEATURES/BENEFITS

- BRANZ Appraised
- European CE certification - GB06/69203
- CodeMark AQ-030516-CMNZ
- High flexibility during application at sub-zero temperature with no physical strains
- High malleability
- Accommodates structural movements
- Resistant to chemical attacks
- Withstand thermal shocks
- Proven performance in colder regions
- Good elongation and flexibility

USES

ARDEX WPM 114 is used as part of a multi-layer system in roofing applications for waterproofing. It has been designed to be used in situations where there may be potential moisture issues in the substrate and can only be used as the base sheet of a multi-layer roofing system.

ARDEX WPM114 membrane must be protected from UV.

- Is a specially designed vented base sheet for use in a multi-layer waterproofing system.
- Virtually eliminates bubbles and blisters forming underneath the waterproofing layer.
- Allows vapour permeating through the deck to diffuse underneath the waterproofing where, ideally, ARDEX Low Rise vents should be installed to allow the vapour to escape to the atmosphere.
- Eliminates the creation of stresses in the waterproofing layers thus greatly reducing failures in the waterproofing caused by deck movements.

- Is the ideal solution for controlled, partially attached first layer in a multi-layer system.

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 should properly be filled with an acceptable fill material.

Confirm concrete structures are specifically engineered to meet the requirements of the NZBC B1/VM1, 3.0 Concrete.

Ensure concrete substrate has been allowed to cure for at least 28 days before commencing application. The relative humidity of concrete substrates must be 75% or less before membrane application as per the NZBC.

INSTALLATION

The application of ARDEX WPM 114 should be carried out by an approved ARDEX Applicator.

Installation shall be undertaken in accordance with all relevant technical information related to the selected installation method, including information contained within the ARDEX specification.

Prior to the application of ARDEX WPM 114, the surface may require priming with ARDEX WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 114 is normally bonded to the prepared substrate with side laps of 100mm and end laps of 150mm. Overlaps shall be sealed by a torch.

ARDEX WPM 114 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 the suitable specification from ARDEX.

SAFETY PRECAUTIONS

ARDEX WPM 114 is not classified as dangerous goods.

During installation, exercise caution when working with an open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions. Do not use an open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 114 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.

PACKAGING

Roll size: 1m x 10 m

Roll weight: Approximately 40kg

Rolls per pallet: 23

TECHNICAL CHARACTERISTICS

CHARACTERISTIC	TEST METHOD	UNITS	NOMINAL VALUES	TOLERANCES
Visible defects	EN 1850-1	visible	Without defects	
Length	EN 1848-1	m	10,00 -1%	MLV
Width	EN 1848-1	m	1,000 -1%	MLV
Straightness	EN 1848-1	mm	20 mm x 10 m	MLV
Thickness	EN 1849-1	mm	4	± 0,2
Watertightness (A)	EN 1928	kPa	60	MLV
External fire performance	EN 13501-5	B roof	F Roof	
Reaction to fire	EN 13501-1	Class	F	Pass
Shear resistance longitudinal / transversal	EN 12317-1	N/50 mm	450 / 350	± 20%
Water vapour transmission proprieties Method A	EN 1931	μ / Sd (m)	120.000 / 480	-20.000
Tensile Strength Longitudinal / Transversal	EN 12311-1	N/50 mm	500 / 400	± 20%
Elongation at break Longitudinal / Transversal	EN 12311-1	%	35 / 35	- 15 absolut
Resistance to tearing (nail shank)	EN 12310-1	N	150 / 150	- 30%
Dimensional stability Longitudinal / Transversal	EN 1107-1 met. A	%	± 0,3 %	MLV
Flexibility al low temperature	EN 1109	°C	-10	MLV
Flow resistance at elevated temperature	EN 1110	°C	100	MLV
Water vapour transmission proprieties after exposure to artificial ageing	EN 1296 / EN 1931	μ / Sd (m)	120.000 / 480	± 50% of the initial value
Water vapour transmission proprieties against chemicals	EN 1847 / EN 1931	μ / Sd (m)	120.000 / 480	± 50% of the initial value

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