ARDEX WPM 195

SBS Torch-Applied Tanking Membrane

Modified Bitumen Tanking Membrane

CE Certification

Positive Vapour Barrier

High Resistance to Thermal Ageing

High Resistance to Cracking

Sand Finish

Suitable for Geothermal Areas

CodeMark™

ARDEX Australia Pty Ltd
20 Powers Road
Seven Hills NSW 2147
Phone: 1300 788 780
Fax: 1300 780 102
Email: techinfo@ardexaustralia.com
www.ardexaustralia.com

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

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SBS Torch-Applied Tanking Membrane

PRODUCT DESCRIPTION

ARDEX WPM 195 is a high performance Styrene Butadine Styrene (SBS) bituminous compound modified with adhesive elasto-plastomeric polymers.

ARDEX WPM 195 is suitable for applications is all climatic zones, with excellent cold flexibility (-20°C) it enables an easy application and allows the membrane to be ideally suited to be applied in harsh environments.

Combined with its exceptional elongation and strengthening reinforcing properties ARDEX WPM 195 is an excellent waterproofing membrane for below ground applications.

ARDEX WPM 195 is coated with a sand polymeric film PE/PP, while the bottom surface is embossed and protected by a heat sensitive polythene film.

ARDEX WPM 195 also has the European CE Certification for use as a tanking membrane.

FEATURES AND BENEFITS

- Excellent resistance to Geothermal gas including Hydrogen Sulphide
- High flexibility during application at sub zero temperatures with no physical strains
- High malleability
- Resistant to chemicals
- Withstand thermal shocks
- Proven performance in colder regions
- Good elongation and flexibility
- Excellent resistance to atmospheric agents
- Accommodates structural movements
- Codemark Certification (AQ-021216-CMNZ)
- European CE Certification (GB06/69203)
- Complies with BS EN 13969:2004

USES

ARDEX WPM 195 is used as a single layer or multi-layer membrane in horizontal or vertical applications for waterproofing for below ground tanking. It is primarily applied to the outside of the sub-structure of a building, such as a foundation or basement to prevent water ingress.

Other forms of tanking where ARDEX WPM 195 can be used include floor slabs, behind masonry walls, the lining of substrates of in situ or precast concrete; retaining walls, lift shafts, tunnels living roofs and planter boxes.

ARDEX WPM 195 membrane must be protected from UV radiation.

STORAGE

All rolls of ARDEX WPM 195 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.

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.

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 to NZBC E2/AS1, 10.0 Construction moisture. Take a measurement using a hygrometer to verify concrete has sufficiently dried when necessary. This process is essential.

The above criteria do not apply if ARDEX WPM 195 is loose-laid on lean site concrete.

ARDEX do not recommend the use of curing compounds; however, when used ensure all traces of compound are gone or removed. Concrete to be finished to NZS 3114, U3 with a light trowel texture. The concrete to have all ridges and protrusions stoned flush.

INSTALLATION

The application of ARDEX WPM 195 should be carried out by an approved ARDEX Applicator.

Note: A 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.

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 195 the surface may require priming with ARDEX WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 195 is normally fully bonded to the prepared substrate with side laps of 100mm and end laps of 150mm. Overlaps shall be sealed by torch.

ARDEX WPM 195 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.

ARDEX Waterstops should be considered for use in all construction joints.

PACKAGING

Roll size: 1m x 8m

Roll weight: Approximately 40kg

Rolls per pallet: 25

Thickness: 4mm

TECHNICAL DATA

The technical data shown is the average results of the Tests, Measurements and Trials carried out on ARDEX WPM 195 Waterproofing Membrane.

CHARACTERISTICS	TEST METHOD	UNITS	NOMINAL VALUE	TOLERANCES
Length	EN 1848-1	m	8	MLV
Width	EN 1848-1	m	1	MLV
Straightness	EN 1848-1	mm	20	MLV
Thickness	EN 1849-1	mm	4	±
Watertightness (A)	EN 1928	kPa	60	MLV
Shear Resistance Longitudinal Transversal	EN 12317-1	 N/50mm N/50mm	 650 450	±20%
Water vapour transmission properties method A	EN 1931	µ/Sd	120.000/480	-20.000
Tensile Strength Longitudinal Transversal	EN 12311-1	 N/50mm N/50mm	 750 550	±20%
Elongation at Break Longitudinal Transversal	EN 12311-1	%	 45 45	-15 absolute
Resistance to Impact	EN 12691	mm	900	MLV
Resistance to static loading method A	EN 12730	kg	15	MLV
Resistance to Tearing (nail shank)	EN 12310-1	N	180/180	-30%
Dimensional Stability Longitudinal Transversal	EN1107-1 method A	%	 ±0.3%	MLV
Flexibility at Low temperature	EN 1109	°C	-20	MLV
Flow Resistance at elevated temperature	EN 1110	°C	90	MLV
Durability of Watertightness against artificial ageing	EN 1296 EN 1928	kPa	60	MLV
Durability of Watertightness against chemicals	EN 1847 EN 1928	kPa	60	MLV