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# ARDEX WPM 5000HD

## Self-Adhesive Bituminous Waterproofing Membrane

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Self-adhesive SBS waterproofing membrane

Suitable under asphalt

Acts as a barrier to radon and methane gas

Resistance to most chemicals

High tear resistance

High initial tack

Cold applied - perfect for use where flames are not permitted

Self-healing

Quick installation



**BRANZ Appraised**  
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# ARDEX WPM 5000HD

## Self-Adhesive Bituminous Waterproofing Membrane

### DESCRIPTION

ARDEX WPM 5000HD is an industrial strength, self-adhesive bituminous membrane. ARDEX WPM 5000HD is reinforced with a layer of polypropylene mesh giving the product exceptionally high mechanical characteristics. ARDEX WPM 5000HD consists of two structural components - SBS modified bitumen with high-tack resins, for easy and versatile installation; and a laminated protection film, providing heat stability and chemical resistance.

### USES

ARDEX WPM 5000HD is suitable for below ground tanking parking decks and car parks, trafficable structures, expansion joints, underneath clay tiles or asphalt shingles.

ARDEX WPM 5000HD is ideal for any application where the waterproofing must have high mechanical strength and characteristics.

### SUBSTRATES

ARDEX WPM 5000HD is suitable for use over concrete, render, screeds, fibre cement sheets, structural or marine grade plywood and polystyrene blocks.

For further substrate types please consult ARDEX Technical Department.

### SURFACE PREPARATION

All surfaces must be clean, dry, smooth, free of sharp edges, loose or foreign materials, oil, grease, and other materials that may damage the membrane. If concrete has moisture on the surface use a gas torch to dry and warm before priming.

### INSTALLATION

Prior to the installation of ARDEX WPM 5000HD all prepared surfaces must be primed with ARDEX WPM 240 Solvent based primer or ARDEX WPM 247 water based primer.

Starting at the lowest point, the membrane must be installed in accordance with the technical literature. Sheets edges must be overlapped a minimum of 60 mm as marked on the sheets. End laps must be a minimum of 100mm, with upper sheets lapped over lower sheets. Internal and external corners of single layer systems must be reinforced with an extra layer of membrane 300mm wide.

The top edge of ARDEX WPM 5000HD must be terminated into a chase or sealed with an ARDEX Pressure Bar and finished with ARDEX Bituminous Sealant.

ARDEX DRS 10 GC protection and drainage membrane must be installed before backfilling in accordance with the product datasheet. Backfilling should commence immediately after the membrane is installed to ensure the membrane is not left exposed to sunlight or UV radiation. In no circumstance should ARDEX WPM 5000HD be left exposed to UV for more than 2 months.

Installation of the membrane must be completed by an approved ARDEX installer and who has experience in the application of self-adhesive membranes.

Note: A Licenced Building Practitioner (LBP) is required to carry out Restricted Building Work. An LBP must do or supervise this work. They must work within the scope of their licence class.

ARDEX hydrophilic products should be considered for use in all construction joints depending on the specifics of the installation.

All edges and membrane detailing work must be finished with ARDEX Bituminous Sealant.

If applying asphalt directly over ARDEX WPM 5000HD, the asphalt should be applied as soon as possible after the membrane has been installed. ARDEX recommends applying a minimum 50mm compacted overlay for carpark areas. The topping should be applied at a temperature of between 120-150°C.

### STORAGE

ARDEX WPM 5000HD 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

ARDEX WPM 5000HD comes in rolls of 20m x 1m x 1.5mm weighing approximately 30kg.

Product Name	Thickness	Colour	Product Code
ARDEX WPM 5000HD	1.5mm	Black	10544

## TECHNICAL DATA

CHARACTERISTICS	TEST METHOD	UNITS	NOMINAL VALUE
Tensile Strength	EN 12311-1		
Longitudinal		N/50mm	925
Transversal		n/50mm	1005
Elongation	ASTM D638		
Longitudinal		%	32
Transversal		%	21
Tear Resistance	UNI 8202/9		
Longitudinal		N	350
Transversal		N	300
Adhesion to primed concrete	ASTM D1000	N/mm	4.9
Adhesion to steel	ASTM D1000	N/mm	5.8
Puncture resistance	ASTM E154	N/65mm	220
Vapour transmission rate	ASTM E969	g/m/24hrs	0.3
Cold flexibility	ASTM D146	°C	-30
Softening point		°C	110
Maximum temperature resistance		°C	150

**Toll Free Technical Services:  
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