

ARDEX WPM 750

Undertile Membrane Waterproofing System

ARDEX WPM 750 SPECIFICATION

ARDEX WPM 750 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.

ARDEX WPM 750 is marketed by ARDEX as a warranted undertile waterproofing product using solvent free adhesives and fixed by their trained and experienced approved Applicators.

ARDEX WPM 750 GAUGES

Standard 0.5mm – For undertile waterproofing

RESISTANCE

ARDEX WPM 750 resists tearing, flex cracking, bubbling and abrasion. It is extremely strong, has a long life and is versatile.

PACKAGING

Rolls of nominal 1.4m x 20m long. Rolls are packed in polythene wrapper trademarked ARDEX WPM 750.

SUBSTRATE SPECIFICATION

Plywood & Timber Substrates must be dry when ARDEX WPM 750 is applied. The plywood and timber substructure shall have a maximum moisture content of 20% when ARDEX WPM 750 is adhered.

NOTE: The use of LOSP (Light Organic Solvent Preservative) treated plywood must NOT be used under ARDEX WPM 750 in any circumstances or conditions.

SUBSTRATE SPECIFICATION (Strandsarking)

Strandsarking sheets are 3.60m x 800mm x 16.3mm.

Strandsarking sheets shall be laid with staggered joints. (brick bond) The edges of all sheets shall be supported with dwangs or framing. The maximum allowable spacing for supporting roof framing is 400mm.

When a roof has a pitch below 2 degrees it is recommended to use Strandfloor H3.1.

Strandsarking sheets may be butt jointed with an Ardex release tape used over the join.

Fixings.

Shall be 50mm x 4.8mm diameter stainless steel screws fixed at 150mm centres.

If fixings are bought into 100mm centres on the intermediate supports this will allow use in wind zones very high and extra high without any further treatment. Fixings must be positioned no closer than 10mm from the sheet edges.

OTHER SUBSTRATE TYPES

Fibre cement compressed sheet, closed cell polyurethane foam, wet wall linings i.e. Gib Aqualine, VillaBoard.

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 WPM 300 HydrEpoxy System (consult ARDEX Technical Department for details)

Old Concrete

Must be clean from any contaminants prior to application

ADHESIVES FOR USE WITH ARDEX WPM 750

WPM 750 Adhesive

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

ARDEX WPM 750 when fixed according to ARDEX instruction will meet the NZBC requirements of B2.3.1(b) 15 years.

Refer BRANZ Appraisal Certificate No 727.

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.

TYPICAL ARCHITECTURAL ARDEX WPM 750 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 ARDEX WPM 750 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 ARDEX WPM 750 Membrane

Shall be 0.5mm thick ARDEX WPM 750 in all wet area surfaces, where membrane is to be overlaid with tiles.

6.2 Adhesives

Shall be recommended by ARDEX specially formulated for ARDEX WPM 750 and suitable for the particular application and the relevant temperature and conditions applicable.

7. Laying of ARDEX WPM 750

The ARDEX WPM 750 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 ARDEX WPM 750 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 or Person approved by ARDEX. The approved installer shall examine all drawings and provide for the surface to which ARDEX WPM 750 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 and cut to the measured length. Smooth ARDEX WPM 750 on contact to minimise air entrapment beneath the membrane. Floor sheets of ARDEX WPM 750 must extend up the wall at least 150mm. Make sure the ARDEX WPM 750 is laid tightly into all corners. Wall sheets of ARDEX WPM 750 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 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 150mm out from the shower rose.

PROTECTION

ARDEX WPM 750 is not suitable as a trafficable surface.

ARDEX WPM 750 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 WPM 1000

Weldable Waterproofing Membrane

DESCRIPTION

ARDEX WPM 1000 Weldable Waterproofing Membrane is a versatile rubber membrane that can be heat welded. It is suitable for waterproofing underground tanking, rooftops, decks, undertile, canal and pond linings.

ARDEX WPM 1000 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.

MATERIAL SPECIFICATIONS

ARDEX requirements for long term warranty necessitate that the ARDEX WPM 1000 meets these typical technical requirements:

TEST	SPEC
Gauge – 1.0mm & 1.5mm	+0.15
Specific Gravity	1.26
Tensile Strength (MPa) Min	6.00
300% Modulus (MPa) Min	4.00
Elongation at Break (%) Min	300%
Tear Die (kN/m) Min	26.25
Hardness (° IRHD)	75 ± 5
Tensile Retained Min %	70
Elongation at Break Retained Min %	70
Water Vapour Transmission g/(day.m ²)	0.11
Ozone Resistance to ASTM D1149 - 7 days at 40°C in 50pphm ozone	No visible cracks

GAUGES

Standard 1.0mm

RESISTANCE

ARDEX WPM 1000 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 ARDEX WPM 1000.

ADHESIVES FOR USE WITH ARDEX WPM 1000

ARDEX WPM 09A - The standard contact brushing, spray grade and rolling solvent free adhesive for fixing to the substrate. Supplied

in 20L plastic containers.

ARDEX WPM 09C - Catalyst to assist adhesion in adverse conditions.

ARDEX WA98 - Solvent Based waterproofing adhesive.

ARDEX WPM 642 - Water Based Adhesive

DURABILITY

ARDEX WPM 1000 when fixed according to ARDEX instruction will meet the NZBC requirements of B2.3.1(b) 15 years.

SUBSTRATE SPECIFICATION

Plywood & Timber

Substrates must be dry when ARDEX WPM 1000 is applied. The plywood and timber substructure shall have a maximum moisture content of 20% when ARDEX WPM 1000 is adhered.

NOTE: LOSP (Light Organic Solvent Preservative) treated plywood must NOT be used under ARDEX WPM 1000 in any circumstances or conditions.

SUBSTRATE SPECIFICATION

(Strandsarking)

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When a roof has a pitch below 2 degrees it is recommended to use Strandfloor H3.1.

Strandsarking sheets may be butt jointed with an Ardex release tape used over the join.

Fixings.

Shall be 50mm x 4.8mm diameter stainless steel screws fixed at 150mm centres.

If fixings are bought into 100mm centres on the intermediate supports this will allow use in wind zones very high and extra high without any further treatment. Fixings must be positioned no closer than 10mm from the sheet edges.

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

OTHER SUBSTRATE TYPES

Fibre cement compressed sheet, closed cell polyurethane foam, wet wall linings i.e. Gib Aqualine, VillaBoard.

INSTALLATION

Roll out ARDEX WPM 1000 and cut to the measured length. Smooth ARDEX WPM 1000 on contact to minimise air entrapment beneath the membrane.

Floor sheets of ARDEX WPM 1000 must extend up the wall at least 150mm. Make sure the ARDEX WPM 1000 is laid tightly into all corners. Wall sheets of ARDEX WPM 1000 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 1000 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 1000 is not suitable as a trafficable surface. ARDEX WPM 1000 is compatible with undertile heating systems. For electric undertile heating, the wire must be covered with a thin screed prior to laying 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.