WATERPROOFING & SUBSTRATE PREPARATION PRODUCTS





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This catalogue is designed for quick reference.

Please refer to product datasheets and packaging for detailed instructions.

CONSTRUCTION WORLD WITH ARDEX

ARDEX Singapore is a manufacturer and solution provider of high quality building / construction, chemical and materials. We are proud to be a part of the ARDEX Group, founded in Witten, Germany in the I940's that has now grown to become a global business, providing engineered solutions for flooring, waterproofing and tiling.

Today, ARDEX has achieved a worldwide presence through 67 subsidiaries with 4,000 employees active in offices and branches. There are strategic production bases located in more than 50 countries in the recent years.

VISION

The ARDEX Group envisions to be one of the world's leading solution providers of high performance specialty building materials.



INNOVATION / SYSTEM ARDEX

INNOVATION

Our waterproofing solutions are highly application specific. From sub-floor to roofing, we have developed products that stand the test of time - and moisture. Even under extremely critical conditions, no failures occur. That is why so many professionals rely on ARDEX.

Innovation has been a key influencer to this continued success. With technologies introduced many years ago, it is still unique in the respective industries today. ARDEX strives to meet the needs of consultants, specifiers, contractors and distributors through our high performance products with superior technical services and R & D in construction materials in tiling, flooring, and waterproofing for the building trade. ARDEX has won many innovation awards in different countries.

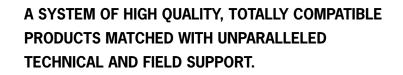
QUALITY ASSURANCE

SYSTEM ARDEX

In Singapore, ARDEX's quality was acknowledged with ISO 9001 accreditation. All production, raw materials and packaging went through vigorous quality control procedures which, together with the quality management system, have been certified and are independently audited to the Quality Standard ISO 9001: 2015 and ISO 14001:2015.

ARDEX is committed to developing easy-to-use and high-performance products. ARDEX products, systems and services are designed to provide professional contractors with the competitive advantage of superior performance and a lower total cost of installation.

ARDEX waterproofing products are complementary and designed to work together for total reliability and performance. Each product is the result of exquisite research and development that combines input from contractors, specifiers and installers to ensure absolute product compatibility. We call this System ARDEX.







As part of our ongoing commitment to the environment, ARDEX is constantly improving the existing range and developing new products to reduce the ecological footprint.

ARDEX products are environmentally friendly and are against the abuse of greenwashing.

The indoor air quality of buildings is also enhanced by using ARDEX products. As shown in the table below, the performance leading and commonly used ARDEX waterproofing products are VOC tested and many have also been independently tested by official Green Building institutions responsible for Southeast Asia.

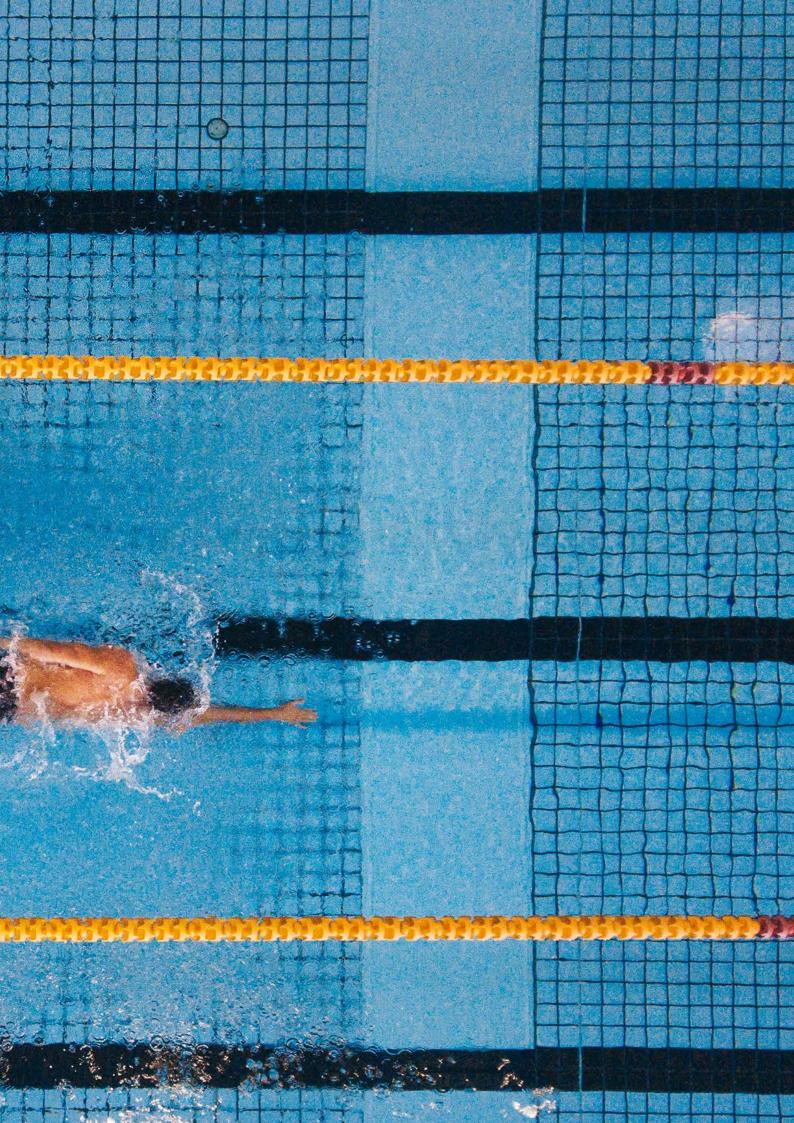
VOC TESTED TABLE

ARDEX WPM 108
ARDEX WPM 109
ARDEX WPM 300
ARDEX WPM 317
ARDEX WPM 335
ARDEX WPM 345
ARDEX Butynol® 1.0

ARDEX WPM 163 ARDEX WPM 256 ARDEX WPM 265 ARDEX Butynol® Roofing ARDEX Butynol® Sealant ARDEX Seam Tape and Primer

WATERPROOFING PRODUCT PROPERTY GUIDELINES

PRODUCT INFORMATION



ARDEX PRODUCT PROPERTY GUIDE - LIQUID APPLIED MEMBRANE

LIQUID APPLIED	USE DESCRIPTION	KIT SIZE	NO. OF PARTS	NO. OF COATS
ARDEX WPM 103	Cementitous waterproof coating	25kg	2	2
ARDEX WPM 104	Semi-flexible cementitous coating	36kg	2	2
ARDEX WPM 106	Flexible cementitous waterproof coating	30kg	2	2
ARDEX WPM 107	Ready-to-use non-cementitous waterproof coating	20kg	1	2
ARDEX WPM 108	Single component undertile waterproof membrane for wet areas	18L	1	*1 - 2
ARDEX WPM 109	Highly flexible cement-based waterproof coating	34kg set	2	2
ARDEX WPM 300	Damp proof, waterproof membrane	20L set	2	2
ARDEX WPM 317	Semi-permeable façade membrane	18L	1	2 - 3
	Semi-permeable roof membrane	18L	1	2 - 3
ARDEX WPM 335	Semi-permeable façade membrane	18L	1	2
ARDEX WPM 345	Roof and deck micro-fibre reinforced waterproofing membrane	18L	1	2
ARDEX WPM 415	Crystalline waterproofing slurry	25kg	1	1 - 2
ARDEX WPM 418	Spray applied rapid cure polyurea system	200kg set	2	*1 - 2
ARDEX WPM 422	Crystalline admix	25kg	1	_
ARDEX WPM 426	Intermediate waterproofing wearing traffic deck coating	21kg set	2	#1 - 2
ARDEX WPM 429	Two components UV stable polyurethane traffic deck waterproofing topcoat	18kg set	2	#1 - 2
ARDEX WPM 780	Bitumen modified polyurethane waterproofing membrane	20L	1	2
ARDEX WPM 900	Multi-purpose liquid applied trafficable	20L	1	2
ARDEX WPM 950	Liquid-applied moisture cure polyurethane waterproofing membrane	22kg	1	2
ARDEX WPM 960	Low VOC moisture cure polyurethane membrane	25kg	1	2

* Only applicable for spray application

One coat of ARDEX WPM 426 is required when ARDEX WPM 429 is applied. Two coats of ARDEX WPM 426 is applied when ARDEX WPM 429 is not required.

W.F.T. PER COAT (MM)	D.F.T. PER COAT (MM)	TOTAL COVERAGE / KIT (SQM)	RECOAT TIME	FULL CURE	TOOLS CLEANING
_	0.8 - 1mm	20	2 - 3 hrs	6 - 8 hrs	water
_	0.8 - 1mm	30	2 - 3 hrs	6 - 8 hrs	water
_	0.8 - 1mm	27	2 - 3 hrs	6 - 8 hrs	water
0.6mm	0.3 - 0.4mm	18	3 - 4 hrs	12 hrs	water
0.65 - 0.95mm	0.5 - 0.8mm	20	4 hrs	7 days	water
Floors - Approx. 0.9 Walls - Approx. 0.6	Floors - Approx. 0.6 Walls - Approx. 0.4		1 - 2 hrs	24 hrs	water / turpentine
0.3	0.15	30	4 hrs	7 days	water
0.2	0.125	36	6 hrs	7 days	water
0.5	0.4	12	6 hrs	7 days	water
0.15	0.1	42	8 hrs	7 days	water
0.5	0.4	21	24 hrs	7 days	water
_	2 - 3	30	60mins	24 - 48 hrs	water
_	1.5	111	—	5mins	water / turpentine
—			—		water
_	_	17	24 hrs	5 days	turpentine
_	1mm with aggregate	60	24 hrs	5 days	turpentine
—	—	24	24 hrs	24 - 48 hrs	turpentine
0.45 - 0.7	0.3 - 0.8	_	2 - 3 hrs	_	turpentine
_	1.1	—	> 12 hrs	—	solvent
	1.1		> 12 hrs		solvent

ARDEX PRODUCT PROPERTY GUIDE - SHEET APPLIED MEMBRANE

SHEET APPLIED	USE DESCRIPTION	ТҮРЕ			
ARDEX Butynol® 1.0	Synthetic butyl rubber membrane	Synthetic Rubber	Polyester		
ARDEX WPM 160	Torch applied sand-coated membrane	APP Bitumen	Combined Polyester / glass		
ARDEX WPM 185	Torch applied mineral-coated membrane	APP Bitumen	Combined Polyester / glass		
ARDEX WPM 530	Self-adhesive membrane	SBS	N.A.		
ARDEX WPM 750	Undertile Butynol®	Synthetic Rubber	N.A.		

ARDEX PRODUCT PROPERTY GUIDE - COMPLIMENTARY PRODUCTS

SURFACE PREPARATION / MISCELLANEOUS PRODUCTS	USE DESCRIPTION	KIT SIZE	NO. OF PARTS	NO. OF COATS
ARDEX CA 20 P	Multi-purpose construction adhesive and sealant	310ml	1	1
ARDEX WA 98 Adhesive	Formulated adhesive for Butynol® application	20L	1	2 - 4
ARDEX WPM 163	Single component polyurethane dispersion sealer	20L	1	2 - 4
ARDEX WPM 240	Solvent-based primer for WPM 185	20L	2	1
ARDEX WPM 256	Water-based epoxy bonding bridge for damp surfaces, fresh cement or concrete	20L	2	1
ARDEX WPM 265	Water-based sheltercoat primer for creating bond between substrate and water-based coatings	20L	1	1
ARDEX WPM 278	Water-based anti-corrosion metal primer	18L	1	2
ARDEX 291	One component non sag polyurethane sealant	600ml	1	1
ARDEX WPM 299 Seam Primer				
ARDEX WPM 640	Penetrating water repellent and sealant	20L	1	2

ROLLS PER PALLET	ROLL LENGTH (M)	ROLL WIDTH (M)	NORMAL EDGE LAP (MM)	NOMINAL THICKNESS / WEIGHT PER M ²	SURFACE FINISH (TOP / BOTTOM)
_	17.86	1.4	50	1.0mm	Black
25	10	1	75	3.0mm	Sand / torch film
23	10	1	75	4.5mm	Green, Grey / torch film
24	20	1	50	1.5mm	PE sheet
—	20	1.4	50	0.5mm	Grey

W.F.T. PER COAT (MM)	D.F.T. PER COAT (MM)	TOTAL COVERAGE / KIT (SQM)	RECOAT TIME FULL CURE		TOOLS CLEANING
_	_	_	7 - 10min	24 hrs	_
—	—	40	—		_
—	—	15	30 - 60min	7 days	Water / detergent
N.A.	N.A.	5	5 N.A. 1 - 2 hrs		ARDEX WPM 290
N.A.	N.A.	140	Wet on wet	7 days	Clean water
N.A.	N.A.	120	1 hr	7 days	Water
0.2	0.16	54	4 - 24 hrs	7 days	Water
		6m			
_	_				_
		5 - 6	While damp	24 hrs	Water

ARDEX PRODUCT APPLICATION GUIDE - LIQUID AND SHEET APPLIED MEMBRANE

	LIQUID APPLIED	ARDEX WPM 108	ARDEX WPM 109	ARDEX WPM 300	ARDEX WPM 317	ARDEX WPM 335	ARDEX WPM 345	ARDEX WPM 415	ARDEX WPM 418	ARDEX WPM 422	ARDEX WPM 426	ARDEX WPM 429	ARDEX WPM 780	ARDEX WPM 900	ARDEX WPM 950	ARDEX WPM 960
	TILES	0			0											
	GALAVANIZE METAL		0		0				Ο							
	METAL		Ο		Ο				Ο							
S	TIMBER	0	0													
SUBSTRATES	PLYWOOD	0	0													
SUBS	PLASTER BOARD															
	FIBRE CEMENT															
	MASONRY															
	CONCRETE															
	CUT AND COVER TUNNELS															
	SUB-STRUCTURE SLAB		0						Ο							
	BASEMENTS															
	PLANTER BOX (INTERNAL)															
	RETAINING WALL														0	0
	RESERVOIR															
S	POND	0														
APPLICATIONS	SWIMMING POOL	0														
APPLI	TANK															
	WATER TANK (POTABLE)															
	BALCONIES			0												
	ROOF										0	0				
	FAÇADE				0											
	BRIDGE DECKS		0													
	BALCONY LANDSCAPED DECKS	0	0													
	BATHROOM															

Recommended O Suitable

ARDEX PRODUCT APPLICATION GUIDE - LIQUID AND SHEET APPLIED MEMBRANE

	SHEET APPLIED	ARDEX Butynol®1.0	ARDEX WPM 160	ARDEX WPM 185	ARDEX WPM 530	ARDEX WPM 750
	TILES					
	GALAVANIZE METAL					
	METAL					
S	TIMBER					
SUBSTRATES	PLYWOOD					
SUBS	PLASTER BOARD				Ο	
	FIBRE CEMENT				Ο	
	MASONRY					
	CONCRETE					
	CUT AND COVER TUNNELS					
	SUB-STRUCTURE SLAB					
	BASEMENTS					
	PLANTER BOX (INTERNAL)					
	RETAINING WALL					
	RESERVOIR					
s	POND					
APPLICATIONS	SWIMMING POOL					
APPLIC	TANK					
	WATER TANK (POTABLE)					
	BALCONIES					0
	ROOF					
	FAÇADE					
	BRIDGE DECKS				Ο	
	BALCONY LANDSCAPED DECKS					
	BATHROOM					
	Recommended O Suitable					

CEMENTITIOUS RIGID WATERPROOF SLURRY COATING



ARDEX WPM 103 a specially formulated two component polymer cementitious waterproofing slurry coating. It adheres to most concrete substrates. It is waterproof as well as wear and weather resistant.

APPLICATIONS

- Tanks, containers, gutters, planter boxes
- Seals and coats tie bar holes to ensure water tightness
- Protects concrete surfaces against carbonation and chloride attack

SUBSTRATES

- On most concrete substrates, thoroughly pre-wetted before the coating is applied
- Clean and sound, free of dust, loose particles, grease or any other contaminants

COVERAGE

Approx. 1 kg per m^2 per coat. Dry film thickness should be approx. 0.8 - 1mm per coat

COLOURS

Grey

METHODS



PACKAGING

25kg set

ARDEX WPM 104

SEMI-FLEXIBLE, CEMENTITIOUS WATERPROOFING COATING



ARDEX WPM 104 is a two component polymer cementitious product for waterproofing applications. It is semi-flexible and provides an effective barrier to waterborne salts and atmospheric gases. It also protects against corrosion.

APPLICATIONS

- For tanks, gutters, planter boxes, roofs, toilets, swimming pools and basements
- To resurface and even out variations in concrete surfaces
- Seal and coat tie bar holes to ensure water tightness
- Protects concrete surfaces from carbonation and chloride
 attack
- Offers protection against corrosion of reinforcing steel

SUBSTRATES

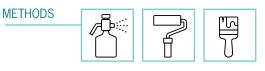
- On most concrete substrates, planter boxes, roofs
- Clean and sound, free of dust, loose particles, grease or any other contaminants

COVERAGE

Approx. 1 kg per m^2 per coat. Dry film thickness should be approx. 0.8mm - 1 mm per coat

COLOURS

Grev



PACKAGING

HIGHLY FLEXIBLE, CEMENTITIOUS WATERPROOF COATING



ARDEX WPM 106 is a two component waterproofing coating, designed to withstand high water pressure in many different applications. Formulated with non-toxic materials, ARDEX WPM 106 ideal for potable water usage. It exhibits excellent crack accommodation qualities even after long-term water immersion.

APPLICATIONS

- Water tanks
- Swimming pools and pool decks
- Corrosion protection for reinforcing steel
- Under marble, granite, even in wet areas
- Suitable for use on new refurbishment projects
- On external environmental decks

SUBSTRATES

- Clean and sound, free of dust, loose particles, grease or any other contaminants
- Substrate must be damp, but free from standing water

COVERAGE

Approx. 0.8 - 1kg per m² per coat

COLOURS

Grey

METHODS



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PACKAGING

30kg set

ARDEX WPM 107

EASY TO USE, NON-CEMENTITIOUS WATERPROOF COATING



ARDEX WPM 107 is a single component waterproof coating. It comprises special blend of copolymers and additives to provide an excellent seamless and elastomeric waterproofing membrane.

APPLICATIONS

- Kitchens and toilets
- Waterproofing on dry walls in wet areas
- Precast gable and walls

SUBSTRATES

- On most concrete substrates
- Gypsum and cement board
- Clean and sound, free of dust, loose particles, grease or any other contaminants

COVERAGE

ARDEX WPM 107 requires a wet film thickness per coat of approx. 0.6mm

COLOURS

Dark Grey

PACKAGING

QUICK DRYING UNDERTILE WATERPROOFING MEMBRANE FOR WET AREAS



ARDEX WPM 108 is a tough, ready to use waterproofing membrane specifically designed for use under tiles. ARDEX WPM 108 is totally resistant to re-emulsification once cured and not affected by temperature extremes.

ARDEX WPM 108 is flexible, safe to use, low in odour, and is fully compatible with all ARDEX tile adhesive.

- Single component ready to use onsite
- Water-based, environmentally and user friendly with very low odour
- Will not cause stains to subsequent materials laid onto it
- Form a seamless homogeneous, waterproof barrier with no laps or joints
- Compatible with quality tile adhesives
- Maintain consistent flexibility with no premature
 embrittlement in its service life

APPLICATIONS

Apply to form a waterproof membrane in residential, commercial and industrial environment

SUBSTRATES

Concrete, metal and wood surface

COVERAGE

Approx. 20m² at 0.50mm (DFT)

COLOURS

Charcoal Black

METHODS



PACKAGING

18L pails

ARDEX WPM 109

HIGHLY FLEXIBLE CEMENT BASED WATERPROOF COATING



ARDEX WPM 109 is a coating for structures that retain or exclude water.

It is designed to withstand high water pressure in many different applications. Formulated with non-toxic materials, ARDEX WPM 109 is ideal for potable water usage and exhibits excellent crack accommodation qualities even after long term water immersion.

- Flexible & elastic, can bridge over cracks
- Bonds to green concrete
- Ability to withstand heavy topping without fracture
- Excellent adhesion to sound substrate
- Durable and UV resistant
- Low VOC
- Green Label certified

APPLICATIONS

- Water tanks
- Swimming pools and pool decks
- Corrosion protection for reinforcing steel
- Internal wet areas
- Water features and ponds
- Deck and balcony

SUBSTRATES

Concrete, metal and wood surface

COVERAGE

Two coats with the total DFT of 1.2mm thickness for flooring is recommended for an effective waterproofing membrane. Coverage will vary depending on the porosity of the surface.

	Dry Film per coat	Wet Film per coat	Total Dry Film (2 coats)
Floors	Approx. 0.6mm	Approx. 0.9mm	Approx. 1.2mm
Walls	Approx. 0.4mm	Approx. 0.6mm	Approx. 0.8mm

COLOURS

Grey METHODS

WATER BASED EPOXY MEMBRANE



ARDEX WPM 300 is a water-based epoxy polyamide membrane / barrier coating.

- Can be applied to damp surfaces
- AS 4020:2000 Potable water approved
- Hydrostatic pressure resistant waterproof membrane
- Prevents rising damp and formation of efflorescence
- Water-based safe to use in sensitive locations
- Green Label certified

APPLICATIONS

Low water vapour transmission coating and as a barrier / seal coating over freshly laid or damp concrete. As a waterproofing barriers on the negative side in below grade surfaces such as basements, tunnels, liftwells, retaining walls and carparks

Waterproofing membrane or barrier coating over freshly laid hardened concrete, prior to the application of conventional levelling compounds carpet and tile adhesive

As a barrier seal coating over damp, green or efflorescence producing concrete prior to overcoating with conventional building paints

SUBSTRATES

Brick, masonry, concrete block , concrete, stone and timber

COVERAGE

Water Stop/ Priming : 60m² (1 coat) Waterproof membrane: 30m² (2 coat)

COLOURS

Grey



PACKAGING

20L set

ARDEX WPM 317

EXTERNAL FACADE & ROOF MEMBRANE



ARDEX WPM 317 is a tough, UV stable flexible premixed liquid applied waterproofing membrane. It has been specifically formulated as a general purpose membrane for exposed wall and roof waterproofing.

- Flexible accommodates normal building movement.
- Provides excellent UV resistance and long term protection from elements
- Excellent workability easy, quick to apply
- Decorative choice of colours
- Water-based safe to use, low odour and easy cleaning
- Versatile can be used for facade and roof application

APPLICATIONS

As a decorative textured finish and waterproofing of external walls and facades. ARDEX WPM 317 is also suitable as waterproofing membrane over concrete, roof, decks

SUBSTRATES

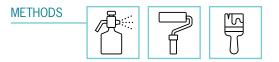
Concrete, renders & screed, fibre cement sheet, metal

COVERAGE

Roof membrane application 12m² at 0.8mm (DFT) Wall membrane application 36m² at 0.25mm (DFT)

COLOURS

Colours to match



PACKAGING

18L pail

EXTERNAL ANTI-CARBONATION FACADE WATERPROOFING MEMBRANE



ARDEX WPM 335 is an extremely weather resistant waterbased acrylic waterproofing membrane. Specially designed as an exposed façade membrane, it prevents dioxide from entering and moisture, salt and carbon damaging the building structure while still allowing the substrate to breathe.

- Highly flexible & durable
- low dirt retention
- Resists fungi & algae growth
- large range of durable colours
- Vapour

APPLICATIONS

Building façades & external walls, roof parapets, silos, lighthouse & other external structures in coastal areas, high traffic density areas for application over concrete and brick surfaces

SUBSTRATES

Rendered walls, brick / masonry walls, fibre cement sheets, Tilt up and pre-cast concrete, light weight aerated concrete blocks, primed surfaces only, metal

COVERAGE

Approx. 42m² at 0.20mm (DFT)

COLOURS

Available in selected architectural colours range





PACKAGING

18L pail

ARDEX WPM 345

ROOF AND DECK MICRO-FIBRE REINFORCED TRAFFICABLE WATERPROOFING MEMBRANE



ARDEX WPM 345 is a tough, UV stable, mildew resistant and flexible liquid applied waterproofing membrane. The reinforced liquid component eliminates the need for reinforcement mat in most situations.

- Provides tough, hardwearing surface
- Flexible
- UV, algae & fungus resistant
- Easy, quick to apply

APPLICATIONS

External decks & floors, rooftops (new & existing) podiums, parapets

SUBSTRATES

Concrete, renders & screeds, masonry & concrete blocks, fibre cement sheets, plywood (external grades), pre-primed metal

COVERAGE

Approx. 21m² at 0.4mm (DFT)

COLOURS

Grey



PACKAGING

18L pail

ARDEX WPM 415 CRYSTALLINE WATERPROOFING SLURRY



ARDEX WPM 415 is an OPC based one component, penetrating crystalline waterproofing powder. It waterproofs and protects concrete or masonry render through crystallisation process. The unique reactive chemicals penetrate and become an integral part of the concrete where the crystals react permanently in the presence of water. ARDEX WPM 415 is suitable for use in high water pressure applications on both the positive and negative side.

- Environmentally friendly in organic and non-toxic
- Easy to use and apply only requires water for mixing
- Fast setting can apply two coats within the same day
- Resists strong hydrostatic pressure
- Seals and post seals shrinkage cracks up to 0.4mm

APPLICATIONS

Use on residential, commercial applications for floors & walls, basements, retaining walls, elevator pits and subway stations. Apply on marine structures such as docks, piers & aquariums, water tanks, reservoir, sewerage plants, swimming pools, parking garages, decks, balconies and roofs

SUBSTRATES

New & old concrete and renders & screeds

COVERAGE

Normal application: 0.7 - 0.8m²/kg/coat

COLOURS

Grey



PACKAGING

25kg pail

ARDEX WPM 418

SPRAY-APPLIED RAPID CURE POLYUREA SYSTEM



ARDEX WPM 418 is a monolithic, spray applied and two component elastomeric waterproofing and flooring membrane, rapid cure polyurea elastomer. And in view of environmental concern, no solvent is used. The system has the gel time of 3 - 5 second and curing time of 3 - 5 minutes.

- Rapid cure
- Excellent substrate adhesion
- Excellent waterproofing properties
- Good chemical resistance
- Seamless & trafficable
- Can be used on a dome and special-shaped or steep roofs with a uniform thickness

APPLICATIONS

- Flat roof
- Landscape decks
- Podium
- Roof terrace
- Carpark deck
- Cut & cover tunnels

Due to its rapid cure property, it can be used as dome and special-shaped or steep roof with a uniform thickness

SUBSTRATES

New and old concrete, renders, screeds

COVERAGE

Normal application: I.8kg/m² (DFT of 1.5mm)

COLOURS

Colours to match

METHODS	ഷ്ണം
	<i>vp</i> t ^m

PACKAGING

ARDEX WPM 422 CRYSTALLINE ADMIX



ARDEX WPM 422 is added to the concrete mix at the time of batching. It is consists of Portland cement, very fine treated silica sand and various active, proprietary chemicals. These active chemicals react with the moisture in fresh concrete and the by-products of cement hydration to cause a catalytic reaction, which generates a non-soluble crystalline formation throughout the pores and capillary tracts of the concrete. The concrete becomes permanently sealed against the penetration of water or liquids from any direction. It is also protected from deterioration due to harsh environmental conditions.

- Resists hydrostatic pressure from either positive or negative surface of concrete slab
- Becomes an integral part of the substrate
- Highly resistant to aggressive chemicals
- Can seal hairline cracks up to 0.4mm
- Allow concrete to breathe
- Non-toxic
- Increases flexibility in construction scheduling

APPLICATIONS

Reservoirs, sewage and water treatment plants, tunnels and subways systems, underground vaults, foundations, parking structures, swimming pools and pre-cast components

SUBSTRATES

Concrete floor and wall

COVERAGE

0.8% to 1.5% by weight of cement used

COLOURS

Available in selected architectural colours range

PACKAGING

20kg pail

ARDEX WPM 426

INTERMEDIATE WATERPROOFING WEARING TRAFFIC DECK COATING



ARDEX WPM 426 is a two component elastomeric polyurethane intermediate waterproofing Deck Coating which forms part of the ARDEX TD traffic deck system. The system utilises an epoxy primer, and a UV stable polyurethane topcoat.

ARDEX TD decking system is a specialised application of elastomeric waterproof coatings designed to accommodate within normal structural movements.

- Heavy duty wear & abrasion resistance
- Flexible with excellent crack bridging capability
- Water & vapour- proof barrier membrane
- Good resistance to chemical attack from commonly found liquids in relevant applications
- A system approach compatible with Ardex polyurethane coatings and heavy-duty self-levelling screed products

APPLICATIONS

- Commercial car parks, turning areas & ramps
- Balconies, walkways, stadium, helipads
- Roof decks
- Parking garages, plant rooms, industrial floors

SUBSTRATES

Concrete and cementitious screeds; old epoxy or polyurethane coatings

COVERAGE

Approx. 1.3kg/m²

COLOURS

Grey or green



PACKAGING

2K POLYURETHANE COATING FOR FLASHING AND TANK WATERPROOFING



ARDEX WPM 428 is a two-component, solvent-free coating, based on high quality elastomeric polyurethane resins. It produces a strong, elastic, hydrophobic membrane suitable for waterproofing and protection.

APPLICATIONS

- · Water tanks made of concrete, steel or other material
- Prefabricated concrete tanks
- Drinking water tanks
- Tanks with wall movement due to expansion and contraction
- Water features, e.g. fountains, ponds, etc

SUBSTRATES

- Concrete tanks have to be cleaned, cracks / holes have to be treated
- For tanks made of other materials, contact the ARDEX Technical Service
- Prime if necessary (e.g. in underground tanks)

COVERAGE

Approx. 800gr/m^2 per coat. Minimum total consumption is approx. 1.6kg/m^2 with dry film thickness no less than 1 - 5mm

COLOURS

Grey



PACKAGING

24kg set

ARDEX WPM 429

UV STABLE POLYURETHANE TRAFFIC DECK WATERPROOFING TOPCOAT



ARDEX WPM 429 is a two component, abrasion resistant and trafficable, liquid applied, UV stable polyurethane waterproofing topcoat which is suitable for both internal and external applications. The system utilises a solvent free epoxy primer, an optional broadcast of aggregate and the solvent based UV stable polyurethane topcoat.

- Heavy duty wear & abrasion resistance
- Multiple applications for intermediate & exposed decks
- UV stable, suitable for exposed areas
- Good resistance to chemical attack from commonly found liquids in relevant applications
- Excellent surface appearance in various colours
- Compatible with ARDEX self-levelling screed

APPLICATIONS

- Commercial car parks, turning areas & ramps
- Balconies, walkways, stadium, helipads
- Roof decks
- Parking garages, plant rooms, industrial floors
- Cold storage & food preparation areas

SUBSTRATES

Application over concrete and cementitious screeds; old epoxy or polyurethane coatings

COVERAGE

Approx. 0.3kg/m² Smooth - 60m²/set Anti-skid - 30m²/set

COLOURS

Grey or green



PACKAGING

BITUMEN MODIFIED POLYURETHANE WATERPROOF MEMBRANE



ARDEX WPM 780 is a single component, liquid applied bitumen modified, coal tar free polyurethane waterproofing membrane for vertical and horizontal surfaces. ARDEX WPM 780 can be brush applied directly from the pail to form extremely elastic and tough waterproof membrane.

- Economical and labour saving
- Easy for detailing
- Fast drying
- Resistant to bacterial growth

APPLICATIONS

Tanking and waterproofing structures below grade, remedial repairs to felts, concrete roof surfaces, planter boxes and retaining walls, between slabs

SUBSTRATES

Application over concrete and cementitious screeds

COVERAGE

Approx. 1.5kg per m² for 2 coats

COLOURS

Black



PACKAGING

20kg pail

ARDEX WPM 900

MULTIPURPOSE LIQUID APPLIED TRAFFICABLE WATERPROOFING MEMBRANE



ARDEX WPM 900 is membrane system with excellent adhesion properties on a wide range of surfaces. It is specially formulated as a ready to use fast drying seamless protective and waterproofing barrier that is hard wearing yet exhibits excellent flexibility. It is suitable for both horizontal and vertical application in UV exposed environments or for use in confined spaces with limited ventilation.

- Fast drying single component
- Non-hazardous and odourless
- Seamless protection
- Excellent adhesion to various substrate
- Long term flexibility and trafficable
- UV stable
- Low VOC

APPLICATIONS

- RC or metal roofing and environmental decking
- Use as wet area membrane for kitchens, baths, showers with or without reinforcement mesh
- Apply as protective membrane coating system to water retaining structures, substructures, foundations
- Repair or over coating of existing liquid applied waterproofing membranes

SUBSTRATES

Concrete, renders & screeds, masonry

COVERAGE

Approximately 0.45 - 0.7kg per m² per coat

COLOURS

Grey



PACKAGING

20L pail

LIQUID-APPLIED MOISTURE CURE POLYURETHANE WATERPROOFING MEMBRANE



ARDEX WPM 950 is single component highly elastic moisture cure polyurethane membrane used for long-lasting waterproofing. It is UV stable, suitable for roof application. For UV or color fastness, apply a WPM 426 topcoat. Cures by reaction with ground and air moisture.

- Fast drying time
- Resistant to dirt and chemical
- Can be used on concrete and metal surfaces
- Seamless protection without joints
- Flexible and able to withstand movement and hairline crack bridging

APPLICATIONS

Waterproofing of balconies, wet area and terraces, protection of polyurethane foam insulation, waterproofing of flowerbeds and planter boxes, waterproofing and protection of concrete and metal roofs

SUBSTRATES

Concrete, renders & screeds, masonry

COVERAGE

Approx. 1.5 kg per m^2 in two coats application to achieve 1.1mm (DFT)

COLOURS

Grey



PACKAGING

22kg pail

ARDEX WPM 960

LOW VOC MOISTURE CURE POLYURETHANE MEMBRANE



ARDEX WPM 960 is a single component low VOC, liquid applied, highly elastic moisture polyurethane membrane used for long-lasting roof application. For UV and colour fastness, apply a UV stable topcoat ARDEX WPM 429.

- Easy application even on vertical surface
- Resistant to dirt, soil acid and salts
- Can be used on concrete and metal surface
- Low VOC solvent, non-flammable
- Flexible and able to withstand movement and hairline crack

APPLICATIONS

External exposed roof and wall façade, protection of Polyurethane Foam insulation, waterproofing of flowerbeds and planter boxes, waterproofing and protection of concrete roofs

SUBSTRATES

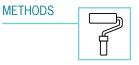
Concrete, renders & screeds, masonry

COVERAGE

Approx. 1.5kg per m^2 in two coats application to achieve 1.1mm (DFT)

COLOURS

Grey



PACKAGING

25kg pail

ARDEX Butynol®

UV STABLE POLYURETHANE TRAFFIC DECK WATERPROOFING TOPCOAT

ARDEX WPM 160

3.0MM POLYESTER REINFORCED APP BITUMEN MEMBRANE



A synthetic rubber membrane with properties which resist ageing from heat, sunlight and ozone. It has excellent gas impermeability, toughness and remains flexible at low temperatures.

ARDEX Butynol[®] protects against water, moisture vapour, gases, sun, ozone, frost, acids, chemicals and bacteria.

- Single-ply, flexible synthetic rubber membrane
- Superior weatherability
- Potable water AS4020 certificate approved
- No maintenance required

APPLICATIONS

Use for roof membranes, external balconies and decks (protected) gutter linings, water containment (i.e. pillow tanks, reservoirs, pond liners) and below grade applications

SUBSTRATES

Metal, steel, plywood, timber, concrete and fibre cement

THICKNESS / WEIGHT

1.0mm (1.2kg/m²)

TOP / BOTTOM SURFACE

Butyl rubber



PACKAGING

17.86m x 1.4m x 1.0mm or 1.2mm



ARDEX WPM 160 is an APP (Atactic Polypropylene) plastomeric type modified bitumen membrane, consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high grade visco-elastic polymers and reinforced with a polyester reinforcement.

- Excellent cold flexibility
- Excellent elongation
- Heat welded laps provide homogenous joint
- Prefabricated membrane
- Good elastic memory
- High mechanical characteristics
- High puncture resistance
- Good elongation
- Will not decay

APPLICATIONS

Used as a single layer or multi-layer tanking membrane in horizontal or vertical application, for waterproofing balconies, terraces and roofs

SUBSTRATES

Concrete

THICKNESS / WEIGHT

3 - 4mm / approx. 37kg

TOP / BOTTOM SURFACE

Sand / Torch film



PACKAGING

10m long x 1m

SHELTERBIT MINERAL MEMBRANE

ARDEX WPM 750 Undertile Butynol®

RUBBER MEMBRANE WATERPROOFING SYSTEM



ARDEX WPM 185 is an APP type modified bitumen membrane.

- Positive vapour barrier
- Excellent resistance to atmospheric agents
- Cold flexibility -5°C
- Resistant to chemical attacks
- Withstand the thermal shocks
- High puncture resistance

APPLICATIONS

ARDEX WPM 185 is used as a cap layer in exposed membrane systems (allowing light foot traffic for maintenance). ARDEX WPM 185 is available in grey and green

SUBSTRATES

Concrete / Metal

THICKNESS / WEIGHT

4mm: 4.5kg/m²

TOP / BOTTOM SURFACE

Slate chip / Torch film

METHODS

PACKAGING

45kg, 10m long x 1m



Undertile Butynol[®] is made up of synthetic rubber with properties which resist ageing from heat, sunlight, 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, toughness and remains flexible at low temperatures.

APPLICATIONS

Waterproofing tile areas such as showers and bathrooms

SUBSTRATES

Fibre cement compressed sheet, closed cell polyurethane, foam and wet wall linings

THICKNESS / WEIGHT

0.75mm

TOP / BOTTOM SURFACE

Polyester mat



PACKAGING

1.4m width and 20m long and is wrapped in polythene wrapper

SELF-ADHESIVE MEMBRANE



ARDEX WPM 530 membrane is a "peel and stick" bituminous waterproofing sheet with non-protected surface of 1.5kg/m² protected by a high density polyethylene film. This special compound with an upper finish of a polyethylene film used as a reinforcement and a lower surface finish of self-adhesive polyethylene film. It is used for the waterproofing of underground walls and inverted roofs under tiles.

- Installed without the use of open flames
- Ideal for installation in restricted spaces
- Adapt easily to irregular shape surface
- Self-seals on contact, maintaining water tightness
- Uniform thickness

APPLICATIONS

Planter boxes, foundations, below-ground applications, retaining walls, metal roof, balcony decks under cement screeds and other compatible hard coverings

SUBSTRATES

Plywood, timber, concrete, plaster board, fibre cement

THICKNESS / WEIGHT

1.5mm/30kg

TOP / BOTTOM SURFACE

PE Sheet

PACKAGING

Width: 1m, Length: 20m

ARDEX CA 20 P

MULTIPURPOSE CONSTRUCTION ADHESIVE AND SEALANT



ARDEX CA 20 P is a one component, silane modified polymer adhesive and neutral curing sealant which hardens in reaction with moisture. It is extremely flexible, with a high initial tack and good bond strength, making it suitable for a wide range of applications.

APPLICATIONS

General shower, kitchen, bathroom repair adhesive & sealant for replacing tiles and fitting accessories

SUBSTRATES

Glass, tiles, ceramics, wood, plastic , metal, aluminium polystyrene foam, ceramic tiles, and timber

COVERAGE

10m run/310ml



PACKAGING

310ml

ARDEX WA 98

BUTYNOL ADHESIVE



Specially formulated adhesive for all butynol applications including broadspan bonding and lap jointing in non-aggressive and non-immersed condition exposure.

APPLICATIONS

Use for ARDEX WA 98 Adhesive

SUBSTRATES

Timber, plywood, concrete and cement fibre

COVERAGE

 $40m^2$ per 20L





PACKAGING

20L

SHELTERCOAT DPM PENETRATIVE SEALER



ARDEX WPM 163 is a one component water based urethane modified acrylic water resistant protective sealer that penetrates and cures within the pores of the surface being sealed. ARDEX WPM 163 is semi permeable allowing the surface to breathe and is not a waterproof membrane that will resist ponding water.

APPLICATIONS

A single component protective, water resistant sealer and dust suppressant that minimise water ingress while allowing the substrate to breathe, inhibit water penetration and prevent internal surface condensation. It can be applied as a grease and oil resistant sealer

SUBSTRATES

Masonry wall / path, concrete, roof tiles, brick, stone, slate and timber wall paneling

COVERAGE

 $15m^2/L/coat$ depending on the porosity of the substrate.





PACKAGING

20L

ARDEX WPM 240

BITUMINOUS PRIMER



Primer for bituminous membranes A solvent based bitumen modified primer to be used to seal and prepare the substrate prior to the installation of the torch applied bitumen (Shelterbit) and self-adhesive bituminous membranes.

APPLICATIONS

Applied on balcony landscape decks and roof

SUBSTRATES

Concrete, render / screed, masonry

COVERAGE

1 L will cover approx. 5m²





PACKAGING

20L

HYDREPOXY BONDING BRIDGE



ARDEX WPM 256 is a two component water-based epoxy polyamide unpigmented for new to old concrete bonding bridge. An admixture for cement based materials and a structural penetrating sealer. Use as a penetrating primer / in conjunction with WPM 300.

APPLICATIONS

As a new to old concrete bonding bridge. Add mixture to cement to produce variable strength repair mortars. As a concrete curing membrane to contain the water. Aid to curing of and sealing of concrete

SUBSTRATES

Brick, masonry, concrete block, concrete, compressed fibreboard, stone and timber

COVERAGE

Bonding bridge: 7m²/L Curing membrane: 3m²/L

METHODS



PACKAGING

4L, 20L set

ARDEX WPM 265

SHELTERCOAT WATER BASED PRIMER



ARDEX WPM 265 is a red pigmented, acrylic primer system which creates a positive bond between the substrate and most water based coatings. Designed principally for internal use, ARDEX WPM 265 can also be used for external applications.

APPLICATIONS

Used as a primer for acrylic coatings

SUBSTRATES

Concrete block, new and old concrete, compressed fibreboard and timber

COVERAGE

Approx. 6m²/L



PACKAGING

20L pail

ANTI-CORROSION METAL PRIMER



ARDEX WPM 278 is a pigment, acrylic primer system which creates an excellent bond between metal substrates and most water based coatings.

APPLICATIONS

Internal and external (New & old metal fabrication, a preventive maintenance works and repair & renovation works on metal substrates such as metal deck roofs). As a primer for liquid applied water based waterproofing coatings

2

SUBSTRATES

Metal and steel

COVERAGE

Approx. 7m² at 1mm thick



PACKAGING

18L plastic pail

ARDEX 291

ONE COMPONENT NON SAG POLYURETHANE SEALANT



ARDEX 291 is a single component, low modulus non sagging elastomeric polyurethane sealant ideally for expansion and construction joint applications. After application, the sealant cures with atmospheric moisture to form a durable rubber seal.

APPLICATIONS

For sealing metal frame, aluminium windows, various joint sealing of PC or RC, granite, marble and sandstone joints

SUBSTRATES

Concrete, granite, marble and sandstone, aluminium

COVERAGE

For 10mm 10mm joint size, 600ml of ARDEX 291 will cover approx. 6m

COLOURS

Black, Grey, White



PACKAGING

Packed in aluminium foil sausage - 600ml net volume. 20 sausages per box

ARDEX WPM 299 SEAM PRIMER

WATER RESISTANT PRIMER



ARDEX WPM 299 is suitable for laps that are likely to be subjected to periodic ponding only – not suitable for continuous immersion joints and must be fusion welded. It can also be used for general lap bonding.

APPLICATIONS

Applied on roof, balconies, water tank (portable), concrete tanking, steel tank, pond, planter box (internal) and substructure slab

SUBSTRATES

Metal, steel, plywood, timber, concrete and fibre cement

COVERAGE

Bonding bridge: 7m²/L Curing membrane: 3m²/L

METHODS



PACKAGING

4L

ARDEX WPM 640

PENETRATING WATER REPELLENT AND SEALER



ARDEX WPM 640 is a silane / siloxane based reactive sealer that provides in-depth protection by hydrophobic and pore filling crystallisation action. It repels water, but allows vapour to permit, thus allowing treated substrates to dry gradually without staining. It is suitable for internal and external surfaces such as brickwork, certain types of natural stone, cement render, concrete blocks, fibre cement board and other porous masonry substrates.

APPLICATIONS

External brickwork, cement render, concrete blocks, natural stones, clays and porous tiles, pavers, fibre cement board

SUBSTRATES

Concrete, render / screed and masonry

COVERAGE

One unit of 20L will cover approximately 5 - $6m^2/L/coat$. Minimum 2 coats are required.



PACKAGING

20L

ACCESSORIES

ACCESSORIES: BUTYNOL®

ARDEX CA 20 P

Designed for sealing Butynol[®] flashing into chase and as a multi-purpose general construction sealant and adhesive.



ARDEX FLASHING TAPE

Underflashing for $\mathsf{Butynol}^\circledast$ flashing in corners, pipes and penetrations.



ARDEX BUTYNOL® HOT TAPE



Used for welding large panels of Butynol[®] hot tape.



Designed to seal the edges of ARDEX Butynol[®] or ARDEX Torch Applied Bitumen membranes and ARDEX SBS Adhesive membranes where no existing cavity flashing or damp course has been installed.



ARDEX BUTYNOL® ROLLERS

Tools for ensuring better fusion / bonding between the adhesive and Butynol[®] membrane.



ARDEX BUTYNOL® DETAILS TAPE

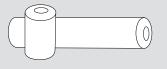
Patching and detailing Butynol[®] around pipes and penetrations.



ACCESSORIES: REINFORCE

ARDEX DECKWEB

Woven Polyester Reinforcement Cloth. ARDEX "Deckweb" is applied on cracks less than 6mm with a fluted roller. It is used as a reinforcement for membranes.





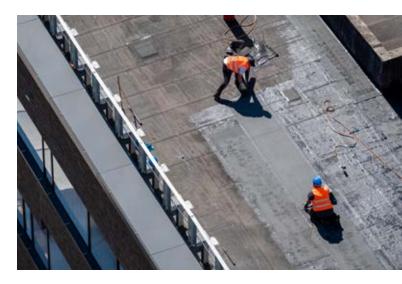
Clearer for Butynol® Membrane.



ARDEX | WATERPROOFING & SUBSTRATE PREPARATION PRODUCTS | 32

TECHNICAL INFORMATION

ARDEX is committed to being the leading provider of technical support in the field. We believe our responsibility does not end with the manufacture of innovative, technically superior products. Therefore, our teams of technical advisors work with contractors and specifiers, as well as with the ARDEX R&D team to provide solutions for specific applications. Some of these common solutions are published in ARDEX Technical Bulletins which are available on request. Contact our Technical Service Department for help with anything out of ordinary, if we don't have solutions, we will certainly investigate.



ONGOING PROFESSIONAL DEVELOPMENT

Our industry like any others requires ongoing trainings to keep up with the changes in both the materials (membranes, substrates etc) and standard / legislation.

For waterproofer committed to providing a high level of workmanship, ARDEX can help you stay up to date, and increase both professionalism and productivity.

ARDEX workshops / trainings designed to give you hands-on experience in addition to the theory: These workshops / trainings cover:

- Application fundamentals e.g. undertile waterproofing, substrate preparation, and the relevant Singapore standards.
- Product technology to develop expertise in matching product to application, substrate and balancing risk.
- Getting a better understanding and most out of the products.
- Specification of waterproofing systems for economical installation.

Contact your local ARDEX office for information on our workshops / trainings.

WATERPROOFING TOOLS AND ACCESSORIES

ARDEX tools are designed to facilitate installation through accurate and complete mixing of ARDEX compounds. Incorrect mixing, measurement and application may result in water leakage or product underperformance.

ARDEX tools include:



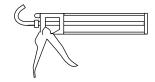
Brush



Roller



Wet Film Thickness Gauge



Sealant Caulking Gun

ARDEX Mixing Paddle



(ARN)

DISCLAIMER

The technical details, recommendations and other information contained in this catalogue are given in good faith and represent the best of our knowledge and experience at the time of printing. It is the responsibility of the user to conduct their own tests to validate the suitability of the products. It is also the responsibility of the user to ensure that the products are used and handled correctly and in accordance with any applicable standards, the product instructions and recommendations and only for the uses they are intended. As we have no control over site conditions and the execution of the work, we accept no liability for any loss or damage which may rise as a result thereof. We also reserve the right to update the information at any time 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 service 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.

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WATERPROOFING & SUBSTRATE PREPARATION PRODUCTS



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