

ARDEX Shelterbit Membranes

Installation Specification

This recommendation has been prepared for the general installation of a Shelterbit Membrane System. Each project can have its own special conditions and idiosyncrasies that may require special conditions and/or processes of installation. Confirmation of the suitability for this recommendation in relation to any project should be sought from the ARDEX Representative prior to specifying.

The application of Shelterbit membranes should be carried out by an approved Applicator of ARDEX waterproofing membranes. Installation shall be strictly in accordance with the Manufacturer's recommendations. All materials used in conjunction with the Shelterbit Systems must be approved by ARDEX .

STORAGE AND HANDLING

Rolls of membrane delivered to the site are to be stored in a covered area or be covered with a protective sheet until required for installation. Rolls are to be stored vertically taking care to prevent damage to the ends. Rolls are not to be dropped or mishandled.

SURFACE PREPARATION

Concrete

Surfaces to which the Shelterbit systems are installed must be properly prepared prior to installation. All surfaces must be clean, dry, smooth, free of sharp edges, fines, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Sand/cement fillets are recommended at all change in direction of substrate (from horizontal to vertical).

SUBSTRATE SPECIFICATION (Plywood)

To conform with Acceptable Solution E2/AS1 plywood shall be:

A minimum of 17mm complying with AS/NZS 2269, at least CD Structural Grade plywood with the sanded C face upwards, and H3.2 with Waterborne CCA treatment and kiln dried after treatment.

Substrates must be dry when ARDEX WPM 150 (Peel & Stick Base Sheet) is applied. The plywood and the timber substructure shall have a maximum moisture content of 20% when Shelterbit is adhered.

Plywood panels shall be laid with staggered joints (brick bond), the edge of sheets shall be supported with dwangs or framing, unless a structurally tested tongue-in-groove edge provides equivalent support. The maximum recommended span in E2/AS1 is 400mm in each direction. However specific design may allow 17.5mm plywood or greater to be laid on 400mm purlins with noggs or dwangs at 600mm or even 1200mm centres. Plywood shall be laid with the face grain at right angles to the supports. A 20mm triangular fillet shall be used at the base of any 90° upstand. External edges shall be chamfered with a minimum

radius of 5mm.

Plywood shall be fixed with 10 gauge x 50mm stainless steel countersunk head screws eg Hylton Parker No 24639, with 3mm gaps between all sheets, at 150mm centres on edges, and 200mm in the body of the sheets.

All joints in the plywood and junctions of plywood with other materials shall have 25mm polyethylene release tape applied before application of ARDEX WPM 150 (Peel & Stick Base Sheet).

Closed-in construction spaces under Shelterbit roofs and decks shall have adequate ventilation to prevent the accumulation of moisture under Shelterbit. There should be a minimum gap of 20mm between the underside of the substrate and any insulation.

Commencement of laying shall be taken as acceptance of the substrate by the approved Applicator.

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 joint.

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.

PRIMING

Prior to the application of the Shelterbit all prepared surfaces shall be primed with Shelterbit Primer at a rate of 5-6m² per litre and allowed to dry.

Coverage of primer may vary depending on the density or porosity of the substrate. Primer may be applied by brush, roller or spray equipment. Coverage must be uniform.

Note that priming is not required for the installation of ARDEX WPM 116 (Fibre Backed Base Sheet) when used on Plywood.

MEMBRANE SYSTEM COMBINATION

Shelterbit can be used in various combinations, refer to Shelterbit System Recommendations in this section for your individual waterproofing requirement.

ARDEX Shelterbit Membranes

System Recommendations

TESTING

After installation, it is recommended, where possible, a water test be carried out for 24 hours.

However, during installation, exercise extreme caution when working with open flame.

Do not use open flame directly on highly combustible material. Follow all local fire codes.

PROTECTION

A protection layer should be used when backfilling or a topping is required, (Protection board or drainage cell for back filling or slip sheet for topping).

Shelterbit Torch-on waterproofing membranes can be used in a wide variety of combinations to suit the requirements of a specific waterproofing application. The following table outlines most of the acceptable alternatives for a range of common situations encountered. Please consult with your ARDEX representative to select the most appropriate solution.

SAFETY

Shelterbit is not classified as dangerous goods.

Spec. No. System

Systems for concrete substrates:

Single Layer Non Exposed

01 **One layer:** WPM 180 3.5 sand/torchable film finished APP Shelterbit Torch-on membrane.

Two Layer Non Exposed

02 **First layer:** WPM 120 2.5mm sand/torchable film finished APP Shelterbit Torch-on membrane.
Second layer: WPM 120 2.5mm sand/torchable film finished APP Shelterbit Torch-on membrane.

Three Layer Non Exposed

03 **Vent sheet:** WPM 114 Shelterbit vented base sheet (**can be counted as waterproof layer**)
First layer: WPM 120 2.5mm sand/torchable film finished APP Shelterbit Torch-on membrane. (Optional)
Second layer: WPM 120 2.5mm sand/torchable film finished APP Shelterbit Torch-on membrane.

Two Layer Exposed

06 **First layer:** WPM 120 2.5mm sand/torchable film finished APP Shelterbit Torch-on membrane.
Second layer: WPM 189 4.0mm APP/SBS DUO Mineral Shelterbit torch-on membrane

Three Layer Vented Exposed

07 **First layer:** WPM 114 Shelterbit vented base sheet (**can be counted as waterproof layer**)
Second layer: WPM 120 2.5mm sand/torchable film finished APP Shelterbit Torch-on membrane. (Optional)
Third layer: WPM 189 4.0mm APP/SBS DUO Mineral Shelterbit torch-on membrane.

Systems for Plywood substrates:

Two Layer Non Exposed

08 **First layer:** WPM150 2mm Peel & Stick Shelterstick SBS base sheet
Second layer: WPM 189 4.0mm APP/SBS DUO Mineral Shelterbit torch-on membrane.

Two Layer Exposed

09 **First layer:** WPM150 2mm Peel & Stick Shelterstick SBS base sheet
Second layer: WPM 189 4.0mm APP/SBS DUO Mineral Shelterbit torch-on membrane.

ARDEX WPM 444

Shelterbit Phoenix Star (Plain)

4.1mm Reinforced APP Bitumen Membrane



PRODUCT DESCRIPTION

ARDEX WPM 444 (Shelterbit Phoenix Star) 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 combined reinforcement (polyester and fibreglass).

ARDEX WPM 444 (Shelterbit Phoenix Star) is certified in Great Britain with BBA No 99/3586/C and in Italy with Technical Agreement I.T.C. 591/03.

ARDEX WPM 444 (Shelterbit Phoenix Star) is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film. This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

FEATURES/BENEFITS

APP modified compound

- Excellent cold flexibility to -15°C
- Excellent elongation
- Heat welded laps provides homogenous joint
- Prefabricated membrane
- Good elastic memory

Combined reinforcement carrier

- High mechanical characteristics
- High puncture resistance
- Good elongation
- Will not decay

USES

ARDEX WPM 444 (Shelterbit Phoenix Star) is designed for use as a multi-layer system on concrete or plywood substrates, or as a single layer system on concrete

substrates with a protective topping such as paving slabs or concrete.

- Non-accessible flat roofing
- Accessible flat roofing
- Foundations and underground premises
- Vault covering
- Shed covering
- Renovation and refurbishment
- Inverted roof systems
- Bridges, viaducts and road structures
- Car parks
- Tunnels

INSTALLATION

The application of ARDEX WPM 444 (Shelterbit Phoenix Star) should be carried out by an approved Applicator.

Installation shall be strictly in accordance with the manufacturer's recommendations.

Acceptable substrates to which ARDEX WPM 444 (Shelterbit Phoenix Star) is to be installed must be properly prepared prior to membrane installation.

All surfaces must be dry, clean, smooth, free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Prior to the application of ARDEX WPM 444 (Shelterbit Phoenix Star) base substrate surfaces should be primed with ARDEX WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 444 (Shelterbit Phoenix Star) 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 444 (Shelterbit Phoenix Star) may be used in various combinations to produce a variety of specifications tailored to suit the individual waterproofing need.

ARDEX WPM 444 (Shelterbit Phoenix Star) is used as a single layer membrane system which is normally installed prior to the installation of toppings, road base or hot melt asphalt or bitumen.

Application of toppings may be applied on completion. Road base may be installed directly to the membrane without an extra protection layer.

The asphalt should be applied as soon as possible after the ARDEX WPM 444 (Shelterbit Phoenix Star) membrane has been installed. ARDEX recommend applying a minimum 50mm compacted overlay for carpark areas. The topping should be applied in two layers at a temperature of between 120-150°C.

The exact specification will depend on functional and economic requirements. Advice should be sought for suitable specification from ARDEX .

TECHNICAL DATA

MEMBRANE

Characteristics	Standard	Units	Nom.
Length	UNI EN 1848-1	m	10±1%
Width	UNI EN 1848-1	m	1±1%
Thickness	UNI EN 1849-1	mm	4.1
Aeric Mass	UNI EN 1849-1	kg/m ²	4.0
Heat Stability	UNI EN 1110	°C	130
Heat Stability After 6 months at 70°C	UNI EN 1110	°C	130
Cold Flexibility	UNI EN 1109	°C	-15
Cold Stability After 6 months at 70°C	UNI EN 1109	°C	0
Dimensional Stability			
Longitudinal	UNI EN 1107-1 A	%	≤ -0.3
Transversal			≤ +0.3
Impermeability	UNI EN 1928	kPa	≥ 60
Tensile Strength			
Longitudinal			
Ultimate Tensile Strength	UNI EN 12311-1	N/50mm	900
Transversal			
Ultimate Tensile Strength			700
Elongation at Break			
Longitudinal	UNI EN 12311-1	%	45
Transversal			45
Tear Resistance			
Longitudinal			150
Transversal	UNI EN 12310-1	N	150
Resistance to Static Load	UNI EN 12730	kg	25
Mineral Adhesion	UNI EN 12039	%	-

Values are referred to a membrane of:
Thickness 4.1mm Weight 4.0kg/m²

All tests have been carried out according to UEATC directive

COMPOUND

Characteristics	Standard	Units	Nom.	Tolerances
Ring and Ball	ASTM D 36	°C	150	Valore min
Penetration at 60°C	ASTM D 5	dmm	120	Valore min
Cold Flexibility	UNI EN 1109	°C	-15	Valore min
Cold Stability After 6 months at 70°C	UNI EN 1109	°C	0	Valore min

SAFETY PRECAUTIONS

ARDEX WPM 444 (Shelterbit Phoenix Star) is not classified as dangerous goods.

However during installation exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 444 (Shelterbit Phoenix Star) 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 10m

Roll weight: Approximately 40kg

Rolls per pallet: 23

ARDEX WPM 114

Shelterbit 4mm APP Vented Base Sheet

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.

ARDEX WPM 114

Shelterbit 4mm APP Vented Base Sheet

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

ARDEX WPM 120

Shelterbit Fibrepol 120 Membrane

2.5mm Combined Reinforced APP Bitumen Membrane



PRODUCT DESCRIPTION

ARDEX WPM 120 (Shelterbit Fibrepol 120) 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 combined reinforcement carrier.

ARDEX WPM 120 (Shelterbit Fibrepol 120) is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film. This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

FEATURES/BENEFITS

APP modified compound

- Excellent cold flexibility to -5°C
- Excellent elongation
- Heat welded laps provide homogenous joint
- Prefabricated membrane
- Good elastic memory

Combined reinforcement carrier

- High mechanical characteristics
- High puncture resistance
- Will not decay

USES

ARDEX WPM 120 (Shelterbit Fibrepol 120) is used as a base and or mid layer in multi-layer membrane systems in horizontal or vertical applications for waterproofing balconies, terraces and roofs. ARDEX WPM 120 (Shelterbit Fibrepol 120) membrane is a sandwich membrane and must be protected from UV.

INSTALLATION

The application of ARDEX WPM 120 (Shelterbit Fibrepol 120) should be carried out by an approved Applicator.

Installation shall be strictly in accordance with the manufacturer's recommendations.

Acceptable substrates to which ARDEX WPM 120 (Shelterbit Fibrepol 120) is installed must be properly prepared prior to membranes installation.

All surfaces must be dry, clean, smooth, free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Prior to the application of ARDEX WPM 120 (Shelterbit Fibrepol 120) the base substrate surfaces should be primed with ARDEX WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 120 (Shelterbit Fibrepol 120) 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 120 (Shelterbit Fibrepol 120) 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 .

SAFETY PRECAUTIONS

ARDEX Shelterbit is not classified as dangerous goods.

However during installation exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 120 (Shelterbit Fibrepol 120) 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 15m

Roll weight: 45kg

Rolls per pallet: 23

TECHNICAL DATA

The Technical Data shown here below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 120 (Shelterbit Fibrepol 120) Waterproofing Membrane.

Characteristics	Standard	Units	Nom.
Length	UNI EN 1848-1	m	15
Width	UNI EN 1848-1	m	1.0
Thickness	UNI EN 1849-1	mm	2.5
Aeric Mass	UNI EN 1849-1	kg/m ²	2.9
Heat Stability	UNI EN 1110	°C	110
Cold Flexibility	UNI EN 1109	°C	-5
Tensile strength	UNI EN 12311-1		
Ultimate Longitudinal	N/5	cm	530
Ultimate Transverse	N/5	cm	400
Elongation at Break	UNI EN 12311-1		
Longitudinal		%	35
Transverse		%	40
Tear resistance	UNI EN 12310-1		
Longitudinal		N	120
Transverse		N	120
Reinforcement	Combined	g.s.m.	120
Surface finishes	Lower ¹	torch film	
	Top ²	sand	

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

All tests have been carried out to UEATC, to tolerances as per European Directive.

ARDEX WPM 180

Shelterbit Fibrepol 180 Membrane

3.5mm Combined Reinforced APP Bitumen Membrane



PRODUCT DESCRIPTION

ARDEX WPM 180 (Shelterbit Fibrepol 180) 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 combined reinforcement (polyester and fibreglass).

ARDEX WPM 180 (Shelterbit Fibrepol 180) is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film. This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

FEATURES/BENEFITS

APP modified compound

- Excellent cold flexibility to -5°C
- Excellent elongation
- Heat welded laps provide homogenous joint
- Prefabricated membrane
- Good elastic memory

Combined reinforcement carrier

- High mechanical characteristics
- High puncture resistance
- Good elongation
- Will not decay

USES

ARDEX WPM 180 (Shelterbit Fibrepol 180) is used as a multi-layer membrane in horizontal or vertical applications for waterproofing balconies, terraces and roofs. ARDEX WPM 180 (Shelterbit Fibrepol 180) membrane is a sandwich membrane and must be protected from UV.

INSTALLATION

The application of ARDEX WPM 180 (Shelterbit Fibrepol 180) should be carried out by an approved Applicator.

Installation shall be strictly in accordance with the manufacturer's recommendations.

Acceptable substrates to which ARDEX WPM 180 (Shelterbit Fibrepol 180) is to be installed must be properly prepared prior to membrane installation.

All surfaces must be dry, clean, smooth, free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Prior to the application of ARDEX WPM 180 (Shelterbit Fibrepol 180) base substrate surfaces should be primed with ARDEX WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 180 (Shelterbit Fibrepol 180) 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 180 (Shelterbit Fibrepol 180) 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 .

SAFETY PRECAUTIONS

ARDEX WPM 180 (Shelterbit Fibrepol 180) is not classified as dangerous goods.

However during installation exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 180 (Shelterbit Fibrepol 180) 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 10m

Roll weight: Approximately 42kg

Rolls per pallet: 23

TECHNICAL DATA

The Technical Data shown here below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 180 (Shelterbit Fibrepol 180) Waterproofing Membrane.

Characteristics	Standard	Units	Nom.
Length	UNI EN 1848-1	m	10
Width	UNI EN 1848-1	m	1.0
Thickness	UNI EN 1849-1	mm	3.5
Aeric Mass	UNI EN 1849-1	kg/m ²	4.2
Heat Stability	UNI EN 1110	°C	110
Cold Flexibility	UNI EN 1109	°C	-5
Tensile strength	UNI EN 12311-1		
Ultimate Longitudinal	N/5	cm	720
Ultimate Transverse	N/5	cm	420
Elongation at Break	UNI EN 12311-1		
Longitudinal		%	40
Transverse		%	45
Tear resistance	UNI EN 12310-1		
Longitudinal		N	130
Transverse		N	130
Reinforcement	Combined	g.s.m.	180
Surface finishes	Lower ¹	torch film	
	Top ²	sand	

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

All tests have been carried out to UEATC, to tolerances as per European Directive.

ARDEX WPM 186

Shelterbit Garden Membrane

3.5mm Garden APP Bitumen Membrane

PRODUCT DESCRIPTION

ARDEX WPM 186 (Shelterbit Garden) is an APP (Atactic Polypropylene) plastomeric torch applied modified waterproofing membrane, consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high grade visco-elastic polymers and reinforced with a high quality combined reinforcement (fibreglass and polyester) and treated with preventive chemical to stop roots from plants damaging the membrane.

ARDEX WPM 186 (Shelterbit Garden) is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film. This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

FEATURES/BENEFITS

- Positive vapour barrier
- Excellent resistance to pollutants and aging
- Maintains shape stability at high temperatures
- High resistance to perforation
- Is rot-proof
- Resists roots both on membrane and laps
- Good elongation and flexibility
- Heat welded laps provide an homogenous joint

USES

ARDEX WPM 186 (Shelterbit Garden) has been especially formulated for the waterproofing of:

- Planter boxes
- Garden beds
- Roof gardens
- Flower beds
- Green covered civil works etc

ARDEX WPM 186 (Shelterbit Garden) may be installed in a one or multi-layer system incorporating normal Shelterbit. Shelterbit Garden always being the top layer.

INSTALLATION

The application of ARDEX WPM 186 (Shelterbit Garden) should be carried out by an approved Applicator.

Installation shall be strictly in accordance with the manufacturer's recommendations.

Acceptable substrates to which ARDEX WPM 186 (Shelterbit Garden) is to be installed must be properly prepared prior to membrane installation.

All surfaces must be dry, clean, smooth, free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Prior to the application of ARDEX WPM 186 (Shelterbit Garden) the surface should be primed with ARDEX WPM 240 (Shelter Primer).

Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 186 (Shelterbit Garden) 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 186 (Shelterbit Garden) 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 .

SAFETY PRECAUTIONS

ARDEX WPM 186 (Shelterbit Garden) is not classified as dangerous goods.

However during installation, exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 186 (Shelterbit Garden) 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 10m

Roll weight: Approximately 42kg

Rolls per pallet: 23

TECHNICAL DATA

The Technical Data shown here below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 186 (Shelterbit Garden) Waterproofing Membrane.

Characteristics	Standard	Units	Nom.
Length	UNI EN 1848-1	m	10
Width	UNI EN 1848-1	m	1.0
Thickness	UNI EN 1849-1	mm	3.5
Aeric Mass	UNI EN 1849-1	kg/m ²	4.2
Heat Stability	UNI EN 1110	°C	110
Cold Flexibility	UNI EN 1109	°C	-5
Tensile strength	UNI EN 12311-1		
Ultimate Longitudinal	N/5	cm	720
Ultimate Transverse	N/5	cm	420
Elongation at Break	UNI EN 12311-1		
Longitudinal		%	40
Transverse		%	45
Tear resistance	UNI EN 12310-1		
Longitudinal		N	130
Transverse		N	140
Reinforcement	Combined	g.s.m.	180
Surface finishes	Lower ¹	torch film	
	Top ²	sand	

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

All tests have been carried out to UEATC, to tolerances as per European Directive.

ARDEX WPM 188

(Shelterbit Garden Tanking Membrane)

3.0mm SBS Bitumen Membrane

PRODUCT DESCRIPTION

ARDEX WPM 188 is an S.B.S. (Styrene Butadiene Styrene) torch applied modified bitumen waterproofing membrane, consisting of a specially formulated bituminous compound of distilled asphalt modified with selected high grade visco-elastic polymers and reinforced with a high quality combined reinforcement (fibreglass and polyester) and treated with preventive chemicals to stop roots from plants damaging the membrane.

The exceptional elongation properties of SBS combined with the strength and dimensional stability of the reinforcing, provides an excellent waterproofing membrane for new and existing constructions.

ARDEX WPM 188 is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film. This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

FEATURES AND BENEFITS

- Positive vapour barrier.
- Excellent resistance to pollutants and aging.
- High flexibility during application at sub zero temperature with no physical strain.
- Maintains shape stability at high temperatures.
- High resistance to perforation.
- Resists root growth ingress into both the membrane and the laps.
- Good elongation and flexibility.
- Heat welded laps provide an homogenous joint.

USES

ARDEX WPM 188 has been especially formulated for the waterproofing of:

- Planter boxes.
- Garden beds.
- Roof gardens.
- Flower beds.
- Green covered civil works etc.

ARDEX WPM 188 is used as a single layer or multi layer tanking membrane in horizontal or vertical applications, also for waterproofing balconies, terraces and flat roofs.

INSTALLATION

The application of ARDEX WPM 188 should be carried out by an accredited applicator.

Installation shall be strictly in accordance with the manufacturer's recommendations.

All surfaces to which the ARDEX Shelterbit systems are installed must be properly prepared prior to installation. All surfaces must be clean, dry, smooth, and free of sharp edges, fines, loose or foreign materials, oil, grease and other materials which may damage the membrane. New concrete must be cured a minimum of 28 days prior to the installation.

ARDEX WPM 188

Apply to all surfaces one coat of ARDEX WPM 240 Bituminous Primer at a coverage rate of 5 square metres per litre and allow to dry thoroughly.

A layer of ARDEX WPM 188 shall be installed over all positive side surfaces by LPG torch application techniques by an ARDEX accredited applicator. The ARDEX WPM 188 must be fully bonded to the prepared substrate with side laps of 7.5cm and end laps of 10cm. The membrane must be detailed in accordance with ARDEX recommendations. Overlaps shall be sealed by torch.

The ARDEX WPM 188 membrane shall extend to at least 100mm above the backfill level. The top edge of the membrane shall be finished using an ARDEX Pressure Seal to prevent ingress of water behind the membrane.

After all membranes have been installed they shall be protected from mechanical damage by placing ARDEX Protection Board against the membrane before backfilling. The board shall be fixed using PVC Duct Tape – do not use mechanical fixing that will puncture or penetrate the membrane.

SAFETY PRECAUTIONS

ARDEX WPM 188 is hazardous; non-dangerous goods.

However during installation, exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 188 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.

ARDEX WPM 188

(Shelterbit Garden Tanking Membrane)

3.0mm SBS Bitumen Membrane

PACKAGING

Roll size: 1m x 10m

Roll weight: Approximately 35kg

Rolls per pallet: 28

TECHNICAL DATA

The Technical Data shown below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 188 Waterproofing Membrane.

Characteristics	Standard	Units	Nom.
Length	EN 1848-1	m	10
Width	EN 1848-1	m	1.0
Thickness	EN 1849-1	mm	3.0
Aeric mass	EN 1849-1	kg/m ²	3.5
Heat stability	EN 1110	°C	90
Cold flexibility	EN 1109	°C	-20
Tensile strength	EN 12311-1		
Ultimate longitudinal		N/5cm	720
Ultimate transverse		N/5cm	420
Elongation at break	EN 12311-1		
Longitudinal		%	40
Transverse		%	45
Tear resistance	EN 12310-1		
Longitudinal		N	130
Transverse		N	140
Reinforcement	Combined	g.s.m.	180
Surface finishes	Lower ¹	torch film	
	Top ²	torch film	

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

ARDEX WPM 189

Shelterbit Duo Mineral Membrane

4.5kg/m² Mineral Coated SBS/APP Bitumen Membrane

PRODUCT DESCRIPTION

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is a combined APP (Atactic Polypropylene) and SBS (Styrene-Butadiene-Styrene) 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 combined reinforcement (polyester and fibreglass).

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) bottom layer comprises of an SBS compound which gives high elasticity and excellent flexibility at low temperatures. The top layer is then formed from APP modified bitumen which provides good cold flexibility and high resistance to heat and UV rays.

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is coated with a mineral top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film.

This type of finish for the lower surface has been chosen for two specific purposes. 1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature. 2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering

FEATURES/BENEFITS

APP modified compound

- Excellent elongation
- Heat welded laps provide homogenous joint
- Prefabricated membrane
- Good elastic memory

SBS modified compound

- Excellent cold flexibility and elasticity
- Excellent resistance to cracking
- Improved dimensional stability

Combined reinforcement carrier

- High mechanical characteristics
- High puncture resistance
- Good elongation
- Will not decay

USES

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is used as a multi-layer membrane in horizontal or vertical applications for waterproofing balconies, terraces and roofs. ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is the final layer in the system

INSTALLATION

The application of ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) should be carried out by an approved Applicator

Installation shall be strictly in accordance with the manufacturer's recommendations.

Acceptable substrates to which ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is to be installed must be properly prepared prior to membrane installation.

All surfaces must be dry, clean, smooth, free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Prior to the application of ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) base substrate surfaces should be primed with ARDEX WPM 247 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) 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 189 (Shelterbit Duo Mineral Membrane) 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 .

SAFETY PRECAUTIONS

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is not classified as dangerous goods. However during installation exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) 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 10m

Roll weight: Approximately 45kg

Rolls per pallet: 23

Thickness: 4mm

TECHNICAL DATA

The Technical Data shown below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 189 (Shelterbit Duo Mineral Membrane).

Characteristics	Standard	Nom/Units
Length	UNI EN 1848-1	10m
Width	UNI EN 1848-1	1.0m
Aeric Mass	UNI EN 1849-1	4.5kg/m ²
Heat Stability	UNI EN 1110	100°C
Cold Flexibility	UNI EN 1109	-10°C
Tensile strength	UNI EN 12311-1	
Ultimate		600m
Longitudinal		N/5cm
Ultimate		500m
Transverse		N/5cm
Elongation at Break	UNI EN 12311-1	
Longitudinal		35%
Transverse		35%
Tear resistance	UNI EN 12310-1	
Longitudinal		N 150
Transverse		N 150
Surface finishes	Lower ¹	Torch Film
	Top ²	Mineral Coated

Note 1) Lower surface; the surface which is applied to the structure being waterproofed. Note 2) Top surface; exposed to weather. All tests have been carried out to UEATC Directive.

INSTALLATION RECOMMENDATIONS

The supply of our products and services 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. You should make yourself familiar with them.

ARDEX WPM 191

Shelterbit Fibrepol SBS

3.5mm SBS Bitumen Cold Climate Membrane

PRODUCT DESCRIPTION

ARDEX WPM 191 (Shelterbit Fibrepol SBS) is a high performance Styrene-Butadiene-Styrene (SBS) rubber modified bitumen membrane, reinforced with a combined reinforcement (polyester and fibreglass).

The exceptional elongation properties of SBS combined with the strength and dimensional stability of the reinforcing, provides an excellent waterproofing membrane for new and existing constructions.

ARDEX WPM 191 (Shelterbit Fibrepol SBS). is coated with either a sanded or talc top surface finish, while the bottom surface is embossed and protected by a heat sensitive polythene film. This type of finish for the lower surface has been chosen for two specific purposes.

1. To act as a temperature gauge during application. When the film melts it shows that the compound is at the correct temperature.
2. The embossing is to allow the gases to rapidly escape when heated to its correct installation temperature avoiding possible problems of bubbling and blistering.

FEATURES/BENEFITS

- Positive vapour barrier
- Excellent resistance to atmosphere agents
- 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 191 (Shelterbit Fibrepol SBS) is used as a single layer or multi-layer membrane in horizontal or vertical applications for waterproofing balconies, terraces and flat roofs. ARDEX WPM 191 (Shelterbit Fibrepol SBS) membrane is a sandwich membrane and must be protected from UV.

ARDEX WPM 191 (Shelterbit Fibrepol SBS) is available in mineral finish for exposed roof areas).

INSTALLATION

The application of ARDEX WPM 191 (Shelterbit Fibrepol SBS). should be carried out by an approved Applicator.

Installation shall be strictly in accordance with the manufacturers recommendations.

Acceptable substrates to which ARDEX WPM 191 (Shelterbit Fibrepol SBS) is to be installed must be properly prepared prior to membrane installation.

All surfaces must be dry, clean, smooth, free of sharp edges, loose or foreign materials, oil, grease and other materials which may damage the membrane.

Prior to the application of ARDEX WPM 191 (Shelterbit Fibrepol SBS) the surface may require priming with ARDEX WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 191 (Shelterbit Fibrepol SBS) 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 191 (Shelterbit Fibrepol SBS) 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 .

SAFETY PRECAUTIONS

ARDEX WPM 191 (Shelterbit Fibrepol SBS) is not classified as dangerous goods.

However during installation exercise caution when working with open flame. Examine all surfaces to which the flame has been applied for smouldering or burning conditions.

Do not use open flame on or near highly combustible materials. Follow all local fire codes.

STORAGE

All rolls of ARDEX WPM 191 (Shelterbit Fibrepol SBS) 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 10m

Roll weight: Approximately 43kg

Rolls per pallet: 23

TECHNICAL DATA

The Technical Data shown here below are the average results of the Tests, Measurements and Trials, carried out on ARDEX WPM 191 (Shelterbit Fibrepol SBS) Waterproofing Membrane.

Characteristics	Standard	Units	Nom.
Length	UNI EN 1848-1	m	10
Width	UNI EN 1848-1	m	1.0
Thickness	UNI EN 1849-1	mm	3.5
Aeric Mass	UNI EN 1849-1	kg/m ²	4.3
Heat Stability	UNI EN 1110	°C	90
Cold Flexibility	UNI EN 1109	°C	-20
Tensile strength	UNI EN 12311-1		
Ultimate Longitudinal	N/5	cm	720
Ultimate Transverse	N/5	cm	420
Elongation at Break	UNI EN 12311-1		
Longitudinal		%	45
Transverse		%	45
Tear resistance	UNI EN 12310-1		
Longitudinal		N	160
Transverse		N	170
Reinforcement	Combined	g.s.m.	180
Surface finishes	Lower ¹	torch film	
	Top ²	torch film	

Note 1) Lower surface; the surface which is applied to the structure being waterproofed.

Note 2) Top surface; exposed to underside of covering membrane.

All tests have been carried out to UEATC, to tolerances as per European Directive.

ARDEX WPM 195

SBS Torch-Applied Tanking Membrane

PRODUCT DESCRIPTION

ARDEX WPM 195 is a high performance Styrene-Butadiene-Styrene (SBS) bituminous compound modified with adhesive elastoplastomeric polymers its excellent quality is highlighted by two indicators: cold flexibility and high adhesiveness. ARDEX WPM 195 is suitable for application in all climatic zones, with excellent cold flexibility (-20° C) enables an easy application and allows the membrane to be ideally suited to be applied in areas with harsh climates.

The exceptional elongation properties of SBS combined with the strength and dimensional stability of the reinforcing provides an excellent waterproofing membrane in below ground applications. ARDEX WPM 195 is coated with a sanded 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/BENEFITS

- Complies with BS EN 13969:2004
- European CE certification - GB06/69203
- CodeMark Certification (No. AQ-021216-CMNZ)
- Excellent resistance to atmosphere agents
- Excellent resistance to Geothermal Gas including Hydrogen Sulphide
- 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 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 a sub-structure of a building, such as a foundation or basement to prevent water ingress.

Other forms of tanking where ARDEX 195 can be used include under 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 WPM195 membrane must be protected from UV.

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.

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.

STORAGE

All rolls of ARDEX WPM195 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 8m

Roll weight: Approximately 40kg

Rolls per pallet: 25

ARDEX HYDRO STOP

Please refer to Ardex 1950 and Ardex 1955 for data sheets on standard and sea water activated Hydrophilic Rubber Water Stops.

ARDEX WPM 195

SBS Torch-Applied Tanking Membrane

TECHNICAL CHARACTERISTICS

CHARACTERISTIC	TEST METHOD	UNITS	NOMINAL VALUES	TOLERANCES
Visible defects	EN 1850-1	visible	Without defects	
Length	EN 1848-1	m	8 -1%	MLV
Width	EN 1848-1	m	1 -1%	MLV
Straightness	EN 1848-1	mm	20 mm x 8 m	MLV
Thickness	EN 1849-1	mm	4	±
Watertightness (A)	EN 1928	kPa	60	MLV
Shear resistance longitudinal / transversal	EN 12317-1	N/50 mm	650 / 450	± 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	750 / 550	± 20%
Elongation at break Longitudinal / Transversal	EN 12311-1	%	45 / 45	- 15 absolut
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	EN 1107-1 met. 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
Change in mass on exposure to Hydrogen Sulphide	EN 1847 - Cert No 10998	%	0.29	MDV
Change in Tensile Strength on exposure to Hydrogen Sulphide	EN 1847 - Cert No 10998	%	-9.6	MDV
Change in Elongation on exposure to Hydrogen Sulphide	EN 1847 - Cert No 10998	%	7.2	MDV

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ARDEX WPM 196

SBS Torch-Applied Tanking Membrane

PRODUCT DESCRIPTION

ARDEX WPM 196 is a high performance Styrene-Butadiene-Styrene (SBS) bituminous compound modified with adhesive elastoplastomeric polymers its excellent quality is highlighted by two indicators: cold flexibility and high adhesiveness. ARDEX WPM 196 is suitable for application in all climatic zones, with excellent cold flexibility (-20° C) enables an easy application and allows the membrane to be ideally suited to be applied in areas with harsh climates.

The exceptional elongation properties of SBS combined with the strength and dimensional stability of the reinforcing provides an excellent waterproofing membrane in below ground applications. ARDEX WPM 196 is coated with a mineral chip - sand, polymeric film PE/PP, while the bottom surface is embossed and protected by a heat sensitive polythene film.

ARDEX WPM 196 also has the European CE certification for use as a tanking membrane.

FEATURES/BENEFITS

- Complies with BS EN 13969:2004
- European CE certification - GB06/69203
- CodeMark Certification (No. AQ-021216-CMNZ)
- Excellent resistance to atmosphere agents
- Excellent resistance to Geothermal Gas including Hydrogen Sulphide
- 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 196 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 a sub-structure of a building, such as a foundation or basement to prevent water ingress.

Other forms of tanking where ARDEX WPM 196 can be used include under 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.

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 196 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 196 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 196 the surface may require priming with ARDEX WPM 240 (Shelter Primer). Coverage of primer will depend on the porosity of the substrate.

ARDEX WPM 196 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 196 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.

STORAGE

All rolls of ARDEX WPM 196 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 8m

Roll weight: Approximately 40kg

Rolls per pallet: 25

ARDEX HYDRO STOP

Please refer to Ardex 1950 and Ardex 1955 for data sheets on standard and sea water activated Hydrophilic Rubber Water Stops.

ARDEX WPM 196

SBS Torch-Applied Tanking Membrane

TECHNICAL CHARACTERISTICS

CHARACTERISTIC	TEST METHOD	UNITS	NOMINAL VALUES	TOLERANCES
Visible defects	EN 1850-1	visible	Without defects	
Length	EN 1848-1	m	8 -1%	MLV
Width	EN 1848-1	m	1 -1%	MLV
Straightness	EN 1848-1	mm	20 mm x 8 m	MLV
Thickness	EN 1849-1	mm	4	±
Watertightness (A)	EN 1928	kPa	60	MLV
Shear resistance longitudinal / transversal	EN 12317-1	N/50 mm	650 / 450	± 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	750 / 550	± 20%
Elongation at break Longitudinal / Transversal	EN 12311-1	%	45 / 45	- 15 absolut
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	EN 1107-1 met. 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
Change in mass on exposure to Hydrogen Sulphide	EN 1847 - Cert No 10998	%	0.29	MDV
Change in Tensile Strength on exposure to Hydrogen Sulphide	EN 1847 - Cert No 10998	%	-9.6	MDV
Change in Elongation on exposure to Hydrogen Sulphide	EN 1847 - Cert No 10998	%	7.2	MDV

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DISCLAIMER

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ARDEX HYDROSTOP SW WPM 1950

Polymeric Hydrophilic Rubber Joints

DESCRIPTION

Thanks to its particular chemical composition, ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint remains unaltered over time even at maximum expansion, is dimensionally stable even after numerous hydration and de-hydration cycles while maintaining its ability to increase its volume.

In its maximum expansion, in all its sections, ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint is mechanically strong and elastic. The swelling process is controlled and designed to be compatible with fresh concrete.

The expansion is due to the increase in volume of the ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint components, such as butyl rubber, polyethylene aggregated by high cohesion polymeric binders.

APPLICATION INSTRUCTIONS

ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint must be applied to the support with nails or cement adhesives to remain attached to the support in the early stages of concrete casting. For maximum performance ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint should be placed between the reinforcing bars or in a support with raised edge of at least 8/10 cm. The joints are realized by matching sideways the rubber strip for at least 5 cm, while avoiding overlapping. The application surface should be clean, compact, properly vibrated and free of any irregularities.

BENEFITS

ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint is non-greasy, non-sticky, odorless and non-toxic. Thanks to its ductility it can be used in all conditions and, apart from the nails or adhesive, needs no additional support also in the vertical laying.

PACKAGING

Normally the ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint is protected in impermeable packs in cardboard boxes with 6 rolls 8mt long in a box, giving a total of 48 lineal meters. Profiles and sizes are those normally used in the construction site; profiles with particular sections are available on request:

SW WPM 1950 20mm x 10mm x 8mt roll. 6 rolls per carton equals 48 lineal metres per box

LIMITATIONS

In case of contact with high salt content water, ARDEX Hydrostop SW WPM 1950 hydrophilic rubber joint, preliminary expansion tests must be carried out. For further information please contact our technical service.

SAFETY PRECAUTIONS

There is no health hazards associated with ARDEX Hydrostop SW WPM 1950 in normal use.

Technical Data

Specific weight	ISO 1183	1,26 kg/dm ³
Operating temperature	ISO 458/2	about +4 °C
Max. expansion		% 350
Hardness	ISO 868	60 shore A
Load at break	ISO 527	25 N/mm ²
Elongation at break	ISO 527	300 %
Durability		unlimited
Sections	various	

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ARDEX HYDROSTOP SEA WPM 1955

Polymeric Hydrophilic Rubber Joints

DESCRIPTION

Thanks to its particular chemical composition, ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint remains unaltered over time even at maximum expansion, is dimensionally stable even after numerous hydration and de-hydration cycles while maintaining its ability to increase its volume.

USED IN APPLICATIONS IN BRACKISH AND MARINE WATER

In its maximum expansion, in all its sections, ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint is mechanically strong and elastic. The swelling process is controlled and designed to be compatible with fresh concrete. First expansion occurs after 6/12 hours, while second expansion occurs after 24/36 hours.

COMPOSITION

The expansion is due to the increase of volume in the ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint components, such as butyl rubber, polyethylene aggregated by high cohesion polymeric binders.

APPLICATION INSTRUCTIONS

ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint, whose standard section size is 10x20mm, but can also be supplied in different sizes, must be applied to the support with nails or cement adhesives to remain attached to the support in the early stages of concrete casting. For maximum performance ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint should be placed between the reinforcing bars or in a support with raised edge of at least 8/10 cm. The joints are realized by matching sideways the rubber strip for at least 5 cm, while avoiding overlapping. The application surface should be clean, compact, properly vibrated and free of any irregularities.

BENEFITS

ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint is non-greasy, non-sticky, odorless and non-toxic. Thanks to its ductility it can be used in all conditions and, apart from the nails or adhesive, needs no additional support also in the vertical laying.

PACKAGING

Normally the ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint is protected in impermeable packs in cardboard boxes with 6 rolls 8mt long in a box, giving a total of 48 lineal meters. Profiles and sizes are those normally used in the construction site; profiles with particular sections are available on request:

SEA WPM 1955 20mm x 10mm x 8mt roll. 6 rolls per carton equals 48 lineal metres per box.

Guarantees

ARDEX Hydrostop SEA WPM 1955 hydrophilic rubber joint in its various sections is manufactured with the best materials available on the market to obtain a top quality product.

All information reported on this data sheet correspond to our present level of technical and scientific knowledge studied in laboratory and tested on the site.

There can be changes attributable to environmental or application differences, or to the particular state of the material where to install the joint.

Therefore, information given in this sheet is not a guarantee on results, just warranty on the product quality.

SAFETY PRECAUTIONS

There is no health hazards associated with ARDEX Hydrostop SEA WPM 1955 in normal use.

Technical Data

Specific weight	ISO 1183	1,27 kg/dm ³
Operating temperature	ISO 458/2	about +3 °C
Max. expansion		% 350
Hardness	ISO 868	45 shore A
Load at break	ISO 527	30 N/mm ²
Elongation at break	ISO 527	500 %
Expansion		200 %
Sections	various	

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ARDEX WPM 240

Shelter Primer Solvent Based Primer

PRODUCT DESCRIPTION

Ardex WPM 240 (Shelter Primer) is a solvent based bitumen modified primer to be used to seal and prepare the substrate prior to the installation of the Shelterbit torch-on and Shelterseal self adhesive membranes.

APPLICATION

Ensure that the surface to be primed is dry and free from dust, oil, paint, curing compounds and any other contaminating materials. Stir contents well before use. Apply by brush, roller or airless spray. Ardex WPM 240 (Shelter Primer) must be dry before applying membrane.

COVERAGE

1 litre of Ardex WPM 240 (Shelter Primer) will cover approximately 5m².

DRYING TIME

Allow 1-2 hours @ 23°C.

LIMITATIONS

Ardex WPM 240 (Shelter Primer) should be used with appropriate mask and breathing apparatus in areas with poor ventilation/air flow.

PACKAGING

5L and 20L

STORAGE

12 months in the original unopened packaging stored @ 23°C.

IDENTIFICATION

Black liquid comprising bitumen dissolved in mineral spirits.

CLEAN UP

Wash equipment with Ardex WA98S.

SAFETY DATA

First Aid:

Swallowed: Give water to clean mouth. Do not induce vomiting.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water.

Eyes: Hold open and flood with water for at least 15 minutes.

Inhalation: Remove to fresh air. If breathing is difficult administer oxygen.

If irritation continues seek medical attention promptly.

ARDEX WPM 247

Water Based Shelter Primer

PRODUCT DESCRIPTION

ARDEX WPM 247 (Shelter Primer) is a water based bitumen modified primer to be used to seal and prepare the substrate prior to the installation of the Shelterbit torch-on and Shelterseal self adhesive membranes.

APPLICATION

Ensure that the surface to be primed is dry and free from dust, oil, paint, curing compounds and any other contaminating materials. Stir contents well before use. Apply by brush or roller. ARDEX WPM 247 (Shelter Primer) must be dry before applying membrane.

COVERAGE

1 litre of ARDEX WPM 247 (Shelter Primer) will cover approximately 6m².

DRYING TIME

Allow 1-2 hours @ 23°C.

LIMITATIONS

ARDEX WPM 247 (Shelter Primer) should be used with appropriate mask and breathing apparatus in areas with poor ventilation/air flow.

PACKAGING

5L and 20L containers

STORAGE

12 months in the original unopened packaging stored at @ 23°C.

IDENTIFICATION

Black liquid comprising bitumen suspended in water.

SAFETY DATA

First Aid:

Swallowed: Give water to clean mouth. **Do NOT** induce vomiting. Contact Doctor or Poisons information Centre.

Skin: Remove contaminated clothing. Wash skin thoroughly with soap and water. **Do NOT** use solvents to remove bitumen material from skin. Bitumen may be removed using vegetable or medicinal paraffin oil.

Eyes: Holding eye(s) open, immediately irrigate (s) with water for at least 15 minutes. Seek medical advice.

Inhalation: Not known to be a problem. Remove patient to a well ventilated area. Recovery should be rapid after removal from exposure.

Hair: Solidified bitumen in eyelashes, hair etc. can be removed by gently wiping with lint soaked in medicinal paraffin oil.

ARDEX Shelterbit Shingles

LAYING ARDEX SHELTERBIT SHINGLES

ARDEX Shelterbit Shingles are made from a 4mm combined APP (AtacticPolypropylene) and SBS (Styrene-Butadine-Styrene) plastomeric type modified bitumen membrane, referred to elsewhere in this manual as ARDEX WPM 189 (Shelterbit Duo Mineral Membrane)

External Moisture

To comply with New Zealand Building Code Acceptable Solution E2/AS1 bitumen shingles should be laid at a minimum pitch of 17.5°.

Underflashings

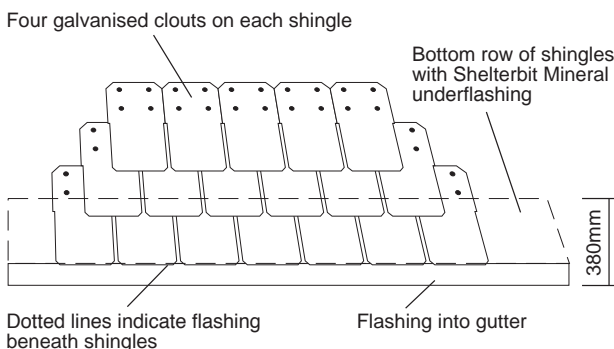
Fix Shelterbit 380mm underflashings to valleys etc. and also as a starter course along the bottom of the roof allowing an overlay into the gutter. All surfaces to which the underflashings are to be fixed should be primed with ARDEX WPM 240 (Shelter Primer).

Laying

1. Mark a chalk line horizontally along the roof one shingle height up. This marks the top of the first row of shingles.
2. The contoured edge of each shingle provides the correct spacing. The top edge when butted also prevents water blowing back up the shingle. The top of each shingle is then fixed with four galvanised clouts. To locate the next row mark a horizontal chalk line up one shingle height minus the overlap onto the lower shingle.
3. The lower half of each shingle must be heated by lifting the shingle back and heating the under surface by the same method used to apply other Torch-on membranes. Care must be taken not to discolour the mineral surface of the shingle below. A piece of plywood can be used to provide a mask and a working platform. The top row of shingles may be cut to suit the apex and a Shelterbit Mineral overflashing used to finish the ridge. Any loose mineral should be brushed off the roof with a soft broom.
4. The heated shingle is then carefully rolled down, paying attention to the lapped edges.

Roof area coverage per 50 shingles is approximately 3.57m².

ARDEX WPM 189 (Shelterbit Duo Mineral Membrane) is appraised in BRANZ Certificate No 463 (2011) as an Alternative Solution to E2/AS1.



Standard Shingles

Approximately 580x290mm, 50% overlap of the shingle below.

ARDEX WPM 150

Shelterstick Self-adhesive Membrane

2mm SBS Fibreglass Reinforced Bituminous Membrane

PRODUCT DESCRIPTION

ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) is a self-adhesive bituminous membrane.

SPECIAL FEATURES

Innovation is the feature that distinguishes ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) from traditional torch-on or fastened systems.

- Absolute waterproofing resists high hydrostatic pressure.
- Because ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) is cold applied and installed without the use of naked flames, they offer a higher safety level on the job.
- Highly resistant to acids, alkalis or other pollutants.
- ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) membrane self seals on contact if being installed using nails or other fasteners, or if cut accidentally.

USES

Ideal for general waterproofing, foundations, tunnels, etc. and especially when, due to the type of operation or materials, the use of torch/fire must be avoided (e.g. on isolation panels, wood paint etc.) For these applications, ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) can also become self-adhesive on the upper surface, simply by heating the protection film until soft, enabling the membrane to be used as an underlay for the application of traditional torch-on membranes.

INSTALLATION

ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) is cold applied without the use of torch or special tools. Provides a fast and long-lasting waterproofing on materials such as: metal, wood, zinc, aluminium, cement or clay tiles, concrete, stone, asbestos cement and a wide variety of plastic products: polyethylene, polypropylene, fibreglass, polycarbonate and some PVC types. The membranes can be installed directly on inflammable materials, on insulation panels that are not fire resistant and in environments where the use of naked flames is dangerous.

VERSATILE

ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) resists elongation and mechanical stresses like no other system or waterproofing material can. ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) is a self-adhesive bituminous membrane with fibreglass reinforcement for waterproofing, sound and vapour barriers, underlays, etc.

Its versatility is assured because of the softness, lightness, and flexibility. In situations where traditional torch-on or fastened systems cannot be used ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) provides the best results without compromising the quality of the work done. ARDEX WPM 150 (Shelterstick Self-adhesive Membrane) is also ideal for urgent repairs, assuring long lasting results.

PACKAGING

Roll size: 1m wide x 15m x 2mm.