

Elastomeric, torch applied membrane, reinforced with rot-proof non-woven polyester and stabilised with glass mat

Uses

Fidia polyester is used as a continuous waterproofing membrane for foundations, basements, tunnels, roofs etc. Fidia Mineral may be used as the top layer in a two layer membrane system or as a single roof membrane for both new and renovation work.

Advantages

- Index membranes have over 25 years of proven performance throughout Australia
- Specifically selected for Australian conditions
- Low VOC - 13 grams per Litre
- Handles ponding and permanently wet conditions
- No curing times. Instantly waterproof
- Uniform thickness - eliminating likelihood of uneven application possible with liquid applied membranes
- Polyester and glass fibre reinforcement ensure dimensional stability whilst allowing flexibility during application and service
- Excellent stability at both high and low temperatures
- High tear and impact resistance and excellent elasticity even at low temperatures
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- Upper face of membrane treated with serigraph talc providing a prepared surface for a reflective coating or acrylic paint film if required
- Available with either a plain or mineral finish

Description

Fidia is an elastoplastomeric torch applied bituminous sheet membrane reinforced with a non-woven spunbonded fabric and longitudinally stabilised with glass fibre strands. The bitumen compounds used to manufacture the product are modified with plastomers and elastomers which give the membrane excellent durability and stability at both high and low temperatures. The upper face is treated with serigraph talc, the lower face with a non-stick sacrificial polyethylene film called Flamina. The lower face is embossed with small squares which assist in the recognition of the correct melting temperature. The embossing also ensures good vapour diffusion in spot bonded or loose laid applications.

Fidia Mineral has the upper face self protected with a layer of coloured ceramic granules. A 75 mm side selvedge is provided along one edge of the roll to allow for adequate heat welding of the side laps.

Maintenance

No special requirements, any damage identified during normal inspections should be repaired or replaced as appropriate.

Properties

Product Code:	Plain: 742000 Mineral: 742004
Form:	Torch applied reinforced sheet
Size:	Roll width 1 m, length 10 m
Colour:	Plain: Black Mineral: Grey
Thickness:	Plain: 3 mm Mineral: 4.5kg
Reinforcement:	Non-woven polyester fabric with glass fibres longitudinally
Impermeability (EN1928):	To water
Tensile strength (UN12311-1):	longitudinal 450 N/50 mm transverse 400 N/50 mm
Ultimate elongation (EN12311-1):	longitudinal 40% transverse 40%
Cold flexibility (EN1109):	-10°C
Dimensional stability:	Stable below 100°C
Application temperature:	5°C - 45°C ambient
Service temperature (continuous ambient):	-10°C - 100°C

Specification Clauses

Where so designated on the drawing the surfaces shall be covered with a torch applied, reinforced, modified bituminous waterproofing membrane.

The waterproofing will be built up using a base layer of 3 mm thick Index Fidia elastoplastomeric polymer bitumen membrane based on distilled bitumen blended with both plastomers and elastomers and reinforced with non-woven polyester fabric containing longitudinal glass fibre strands. The base layer waterproofing membrane must have been tested in accordance with UEAtc directive January 1984, and have a longitudinal and transverse tensile strength greater than 450 N/50 mm and 380 N/50 mm respectively, an ultimate L/T elongation in excess of 38% and flexibility at low temperature to -10°C.

Application Instructions

Surface preparation

All surfaces to which Fidia is to be applied must be smooth, free from contaminants and loose material. Rough concrete to be "faired up" before commencing application. Contact your local Parchem branch for suitable fairing products from our extensive range.

Priming

Index Bitumen Primer is normally applied to all concrete and masonry substrates.

Index Bitumen Primer should be applied at the rate of approximately 8 m² per litre to the surfaces to which Fidia will be applied. The coverage rate for the primer will vary depending on the porosity of the surface being treated. Allow the primer to dry for at least 1 hour at temperatures 25°C and above, until the primed surface is tack free. At lower temperatures allow additional drying time to ensure a tack free surface. Priming should only be carried out on surfaces that will be covered with the membrane on the same day.

Application

Planning the installation of the membrane is important to ensure joints occur in suitable locations.

Fidia membrane must be laid to allow side laps of 100 mm and end laps of 150 mm unless a mineral membrane top layer is being used in which case side laps are set at 70 mm for the mineral top layer and all layers below. If the membrane is to be spot bonded, full bonding must occur for 1 metre each side of the end laps. Application of the membrane is by torch bonding using a suitable gas torch. The membrane is applied with the surface protected by the Flamina facing down towards the substrate, during the application of the gas flame the Flamina will melt away. Bonding is achieved by slowly unrolling the membrane whilst directing the flame at the underside of the roll and melting the bitumen by moving the torch from left to right. Side laps must be welded with care. Correct welding will show a bead of bitumen along the lap. Side laps should be 100 mm wide. Attention should also be given to end laps ensuring complete adhesion allowing 150 mm overlaps.

On completion of the membrane installation all exposed perimeter edges must be mechanically fixed or terminated under a flashing.

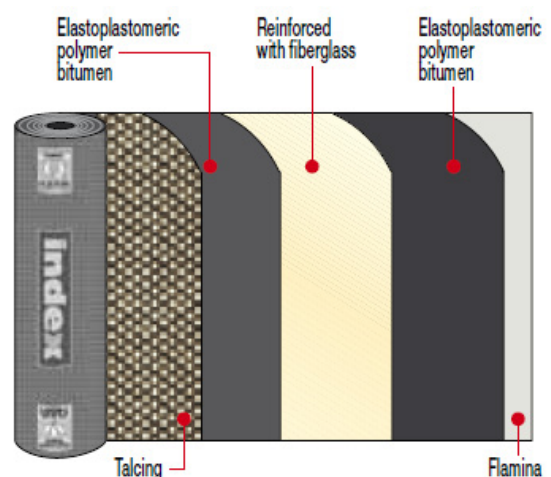
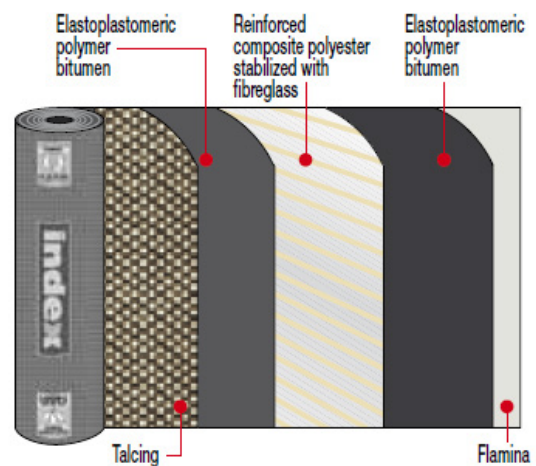
Protection

Whilst the Fidia membrane is based on a polymer modified bitumen which is resistant to UV, it is not recommended for long term exposure without some form of protective topping medium.

Fidia Mineral should be used as a cap or weathering sheet for use in non-trafficable / maintenance traffic areas. Where the completed membrane is to be back filled such as with basement applications the Fidia should be protected from mechanical damage with the Emer-Proof Drain V drainage/protection system, also available from Parchem.

Limitations

New concrete substrates should be allowed to cure for a minimum of 28 days prior to the installation.



Index® Fidia P and Mineral



Supply

Roll width 1 m, length 10 m

Index Fidia Mineral Grey PC: 742004

Index Fidia P PC: 742000

Index Bitumen Primer 20L pail PC: 742105

Emer-Proof Drain V 2m x 20mtr roll PC: 743072

Torch on accessories

Torch on internal corner 90':	PC 744060
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Torch on external corner 270':	PC 744040
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Torch on bituminous fillet 1100mm:	PC 744050
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Torch on drain drop in 80mm:	PC 744080
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Torch on drain drop in 100mm:	PC 744070
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Torch on pipe detailing collar 40mm > 175mm:	PC 744010
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Torch on domed grate 60mm > 120mm:	PC 744090
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Torch on spitter 100mm x 65mm:	PC 744020
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Torch on one-way vent 60mm:	PC 744030
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Torch on two piece one way vent 90mm:	PC 771183
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Pressure Seal Flashing 3mtr lengths:	PC 752016
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Helastoring – Paver support pad:	PC 771197
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Helastoring leveller:	PC 771198
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Coverage

Fidia and Fidia Mineral:	approx. 9 m ² / 10 m roll allowing for overlaps
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Index Bitumen Primer:	8 m ² /litre
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Emer-Proof Drain V:	2m x 20mtr roll (40m ²)
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Note: no allowance has been made for wastage.

Storage

Store in cool, dry conditions ie. not exceeding 25°C.

Rolls must be stored on end and must not be stored lying down.

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.