

High performance 4 mm thick torch applied waterproofing membrane with multilayer composite polymer bitumen and reinforcement

Uses

Proteaduo/P has been developed as a waterproofing membrane where high mechanical resistance, elasticity, thermal stability and durability is required.

Thanks to the excellent fatigue strength characteristics of elastomeric membranes, even when the membrane is full bonded, Proteaduo/P will resist dimensional variations and active cracks which appear on cement surfaces.

Proteaduo/P has excellent compatibility with bitumen surfaces in general, including oxidised bitumen, even if it has only been just applied. The long-lasting adhesion of Proteaduo/P on both difficult restoration work and on new bituminous coatings is guaranteed.

Proteaduo/P may be applied in a single layer or in multilayer systems incorporating other of the Index torch applied membranes.

Advantages

- Index membranes have over 25 years of proven performance throughout Australia
- Specifically selected for Australian conditions
- Low VOC - 4 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
- Excellent stability at both high and low temperatures
- Has excellent durability and flexibility
- Polyester fabric composite reinforcement ensures dimensional stability and high strength while maintaining flexibility during application and service
- Over laps are heat fused providing a homogenous joint eliminating the chance of water ingress beneath the membrane system
- Fully compactable with existing old bitumen membranes
- Maximises adhesion to the substrate
- Resists dimensional variations and active hair line cracks

Technical Support

Parchem offers a technical support package to specifiers, and-users and contractors, as well as on-site technical assistance.

Description

Proteaduo/P is a composite waterproofing membrane where the reinforcement is impregnated with SBS bitumen: the underside in contact with the substrate is made from SBS bitumen while the top face is made from APP bitumen.

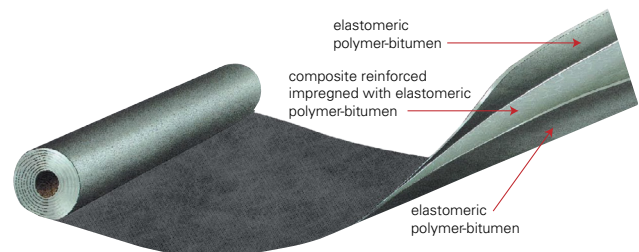
The elastoplastomeric compound of the underside contains distilled bitumen and thermoplastic rubber made from a block copolymer redials butadiene styrene. It has an ultimate elongation of 2000%, flexibility in cold weather and an extremely high resistance to thermo-oxidising ageing. The elastoplastomeric compound of the upper face's protective layer contains distilled bitumen, atactic polypropylene; it also has stabilising additives against thermal shock and a softening point of over 150°C.

Proteaduo/P is also reinforced with composite non-woven polyester fabric which is stabilised with fibreglass mat to guarantee stability in hot conditions, while at low temperatures it behaves like a pure polyester reinforced membrane.

The underside of Proteaduo/P is coated with Flamina and embossing. The Flamina is a plastic film that melts when torched. The embossing maintains the pre-tension and optimal retraction of the film and allows the torch a greater surface area for faster and more reliable installation.

The upper face is coated with a new multifunction surface finish called Texflamina, which may be painted immediately after application with water based coatings such as Emer-Clad.

Thanks to the high heat resistance of the top polymeric layer, Proteaduo/P may also be covered with hot bituminous conglomerate.



Properties

Product code	742012
Thickness (EN 1849-1)	4 mm
Roll size (EN 1848-1)	1x10 m
Reinforcement	“Non woven” Polyester Fabric
Watertightness (EN 1928 – B method) After ageing	60 kPa 60 kPa
Shear resistance (EN 12317-1)	550/400 N/ 50 mm
Maximum tensile force Long./ Trasv. (EN 12311-1)	650/500 N/ 50 mm
Elongation (EN 12311-1)	45/50 %
Resistance to impact (EN 12691- A method)	1.000 mm
Resistance to static loading (EN 12730)	15 Kg
Resistance to tearing (nail shank) (EN 12310-1)	200/200 N
Dimension stability (1107-1)	- 0,25/ - 0,10 %
Flexibility at a low temp. (EN 1109) After ageing (EN 1296-1109)	-25°C -20°C
Flow resistance at elevated temperature (EN 1110) After ageing (EN 1296-1110)	100°C 90°C
UV ageing (EN 1297)	Test passed
Reaction to fire class (EN 13501-1)	Euroclass F
External fire performance (EN 13501-5)	F roof

Maintenance

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

Specification Clauses

Where so designated on the drawing, the surface shall be covered with a torch applied, composite waterproofing membrane with multilayer composite polymer bitumen and reinforced with non woven polyester that is stabilised with fibreglass mat.

Such a product is Proteaduo/P as supplied by Parchem. Areas shall be prepared and the membrane shall be applied in accordance with the current Technical Data Sheet. All materials used in conjunction with the Proteaduo/P membrane shall be approved by Parchem Construction Products.

Application of the membrane shall be carried out by a competent applicator, well trained in the application of modified bitumen torch applied membrane systems.

For further detailed specifications information refer to the appropriate Waterproofing Specification available from your local Parchem sales office.

Application Instructions

Surface preparation

All surfaces receiving Proteaduo/P membrane must be firm, dry, and free from contaminants and loose material. It must also be even and smooth, without any elements that could damage the membrane. Rough concrete must be “faired up” before commencing application. Contact your local Parchem office for suitable fairing products.

Priming

Index Bitumen Primer should be applied to all the prepared surfaces prior to the application of the membrane and allowed to dry. The primer will take at least one hour to dry at temperatures 25°C and above. At lower temperatures allow additional drying time.

Index Bitumen Primer should be applied at the rate of approximately 0.13 L/m² to the surface to which Proteaduo/P will be applied. The coverage rate for the primer will vary depending on the porosity of the surface being treated.

Primer may be applied by brush, roller or spray equipment, coverage must be uniform. Primed areas must 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.

Proteaduo/P membrane must be laid to allow side laps of 10 cm and end laps of 15 cm. If the membrane is to be spot bonded, full bonding must occur for 1 m 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.

Beginning at the lowest point of the deck area and working in the direction of the slope towards the highest point. The first roll of membrane is unrolled completely and aligned, remaining rolls should be unrolled approx. halfway in order to properly align the 10 cm side lap and ensure the required 15 cm end lap is maintained.

Starting at the low point in the deck, apply heat by the gas torch to the outer surface of the rolled portion of membrane while un-rolling, move the flame from side to side while unrolling the membrane by slightly pressing it onto the underlying surface. Avoid shifting the roll while unrolling. Follow the edge of the deck or the lap line. In order to have a smooth and even seal at the joint, apply the flame to the bleed out and the trowel simultaneously and spread the melted compound evenly to seal the joint.

Index® Proteaduo/P - SBS / APP Cross Laminate

Proceed torching the remaining membrane as described above, working your way to the highest point on the deck always maintaining the 10 cm side lap and 15 cm end lap.

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

Protection

Although Proteaduo/P withstands exposure to the sun's rays with out protection, it is recommended that for long term protection the membrane be protected with some form of protective topping medium.

Fidia Mineral or Testudo Mineral should be used as a cap or weathering sheet for use in non-traffic / maintenance traffic areas.

Where the membrane is going to be back filled, such as with basement applications, the Proteaduo/P should be protected from mechanical damage with the Emer-Proof Drain V drainage / protection system also available from Parchem.

Supply

Proteaduo/P:	1 m wide rolls, 10 m long (Product Code 742012)
Index Bitumen Primer:	20 Litre Pail (Product Code 742105)
Emer-Proof Drain V:	2m x 20m roll (Product Code 743072)

Torch on accessories

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



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.