

Torch-on Membranes

SBS Modified PMB Waterproof Sheet Membrane

Description

Danosa Esterdan HC premium quality waterproof sheet membranes comprise a new generation, hot-climate SBS polymer modified bitumen reinforced with non-woven polyester felt and having a surface of thermofusible polyethylene film, sand or mineral granules.

Uses

Ideally suited to fully or partially torch-bonded sheet membrane waterproofing to lift pits, basement slabs, wall tanking, cut and cover tunnels, podiums, balconies, roofing, car parks, bridge decks, planters and all landscaped areas.

Features

- Complies with **Green Star** requirements
- Non-Hazardous – zero VOC
- Easy installation, winter or summer
- Immediate access for finishes
- Guaranteed uniform thickness
- Permanently flexible, tough double barrier membrane
- Liquid flashing compound available to eliminate the need for complex metal cover flashings
- Fully compatible with all other Chemind membrane waterproofing systems

Design a Total Waterproofing Envelope package with Chemind and Grace waterproofing systems.

Typical Properties

	SBS Plain	SBS Mineral	SBS Sand	SBS Root Barrier
Colour	Black	Grey, Green, Red	Sand	Granular
Thickness (Nominal)	2.5, 3.5, 4.0mm	4.0mm	2.5, 3.5mm	4mm
Roll Size	12m ² , 10m ² , 8m ²	8m ²	12m ² , 10m ²	8m ²
Reinforcement Mat	Polyester 160g/m ²	Polyester 160g/m ²	Polyester 160g/m ²	Polyester 180g/m ²
Elongation (ASTM D416)	>40%	>40%	>40%	>40%
Hydrostatic Resistance (EN 1928)	Passed	Passed	Passed	Passed
QUV Ageing 2000 Hrs (ASTM G53)	No Deterioration	No Deterioration	No Deterioration	No Deterioration
Tear Resistance (UNE-EN 12310-1) ±100	280 N	280 N	280 N	280 N
Tensile Strength (UNE-EN 12311-1) ±200	700N/5cm	700N/5cm	700N/5cm	700N/5cm

Grades

Esterdan HC Plain

- Multi-purpose membranes with polyethylene film surface and supplied in various thicknesses.
- Used for basements, lift pits, podium slabs, landscape, planters, balconies and roofs. Used in one-layer or in heavy-duty two-layer applications.

Esterdan HC Mineral

- Heavy-duty slate surfaced membrane for full UV exposure and service traffic. Available in colours. Used for exposed non-traffic roof decks and balconies.

Esterdan HCSand

- General-purpose membranes with traditional sand surface finish.
- Suitable for hot pour and roll installation.
- Used for all areas including tanking, landscaping and roofing.

Esterdan HC Garden (Root Barrier)

- Inhibits fibrous root growth attack and penetration damage to the installed waterproof membrane liner as well as laps and penetrations.
- Uses for planter boxes, landscaped garden areas, Green Roof design and all confined planting. It is recommended to use in conjunction with Rapid-Drain.
- Tested and certified as compliant with European CE requirements.

Preparation

Surfaces must be sound, smooth, free from loose matter, all sharp protrusions and any other contaminants. Concrete must be cured 28 days minimum.

Repair surface defects with Chembond polymer modified cement mortar. Fill cracks or joints, form fillets to internal corners and penetrations with Chemflex LM PU sealant.

Application

Priming

- Apply one coat of Chemind Bitumen Primer at a rate of 5-7 m²/litre and allow to dry.

Application of Continuous Membrane

• Horizontal

Unroll and align roll of Esterdan HC membrane with 80mm side overlap, starting from drain or low point, towards the deck centre, high point. Re-roll back to centre of roll and then torch apply with 100mm end overlaps.

When torching apply flame to lower surface, directing it at the junction with the substrate so as to melt adhesive surface across the full roll width. Unroll Esterdan HC onto the pool of molten bitumen adhesive and press down firmly onto the surface.

Re-check all overlaps and smooth off edges with a pre-heated steel trowel.

• Vertical

Cut a piece of Esterdan HC membrane appropriate to the area to be covered. Heat it with the torch until surface is molten and press onto surface. Check overlaps and smooth edges with pre-heated steel trowel.

• Detailing

Seal to outlets and penetrations with a strip of Esterdan HC and carefully mould with assistance of torch and steel trowel and Esterdan Mastic. Use Esterdan Mastic to detail perimeters or Chemind Protectoflash metal compression flashing strip to seal top edge on vertical faces.



Note

Do not install during inclement weather. Do not over-heat thermofusible adhesive surface.

Surfacing

Danosa Esterdan HC can be covered with:

- **Tanking**
Prior to backfilling or landscaping, use Protectoboard or Rapid-Drain.
Use Rendaflash for neat top edge detail.
- **Exposed Surfaces**
Use Esterdan HC Mineral, gravel, topping, paving slabs, ceramic tiles on bedding or synthetic grass.
- **Insulated - Thermally**
Use Insul-Foam closed cell board.
- **Insulated - Acoustically**
Use Chemind sound deadening systems under tiles if habitable space beneath.

Packaging & Coverage

- Esterdan HC Membranes – Allow approx 10% wastage for general use.
- Chemind Bitumen Primer is packed in 20 litre pails – allow approx 5-7 m²/litre
- Esterdan Mastic - 25 kilo pails – Allow 1 pail to 12-15 rolls Esterdan membrane.

Storage

Rolls should be transported and stored in a vertical position on an even surface to prevent damage to the base/edges of rolls. Store in a cool dry place.

Clean-up

Remove residues from equipment with mineral turpentine. Review MSDS before use.



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