

# Enviro HDPE

## Self-Adhering Sheet Membrane



### DESCRIPTION

Enviro HDPE is a post applied, self-adhering premium sheet membrane system designed for heavy duty applications across industry sectors including civil and commercial. Enviro HDPE incorporates a high performance cross laminated surface film, innovative rubberized asphalt and a backed release paper to maintain adhesive quality.

When installed, this unique layered system provides a fully bonded waterproofing membrane to encapsulate the treated structure, thus preventing water ingress or migration.

### FEATURES

- Fully Bonded
- Chemical Resistant
- Fully Adhered Lap Joints
- Non-Toxic
- Easy Application
- No Heating or Naked Flames
- Self-Adhered
- No Slip Sheet Required for Screed and Topping Slabs
- Self-Sealing to Minor Punctures
- Compatible with Enviro BSM

### TYPICAL USES

Enviro HDPE is simple to install and can be used for a variety of applications including;

- Cut and Covered Tunnels
- Concrete Walls and Slabs
- Roofs
- Lift Pits
- Podiums
- Balconies

- Culverts
- Bridge Decks
- Planter Boxes
- Timber Structures

### PHYSICAL PROPERTIES

Colour	Grey – Black
Form	Roll
Total Thickness	1.5mm
Roll Width	1m or 2m
Roll Length	20m
Tensile Strength (AS1683.11)	>200N/50mm
Elongation (AS1683.11)	>300%
Tear Resistance	>25N
Peel strength at membrane overlap	≥1N/mm
Adhesion to concrete	1.5N/mm
Permeance (ASTM E 96)	<2ng/m <sup>2</sup> sPa
Roll Length	20m

### SUBSTRATE PREPARATION

The surface must be clean, dry and free from all loose particles including dust, laitance, grease, coatings, curing compounds and any other foreign matter. The substrate must be prepared by way of degreasing, grinding or captive shot blasting to provide an adequate surface profile. Apply a suitable and approved joint caulking material such as Enviro Seal PUR (allow to cure), to all internal corners.

For further information on substrate preparation or for project specific advice, please consult EnviroSystems.

[customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)





## PRIMING

Prime prepared surface with Enviro Prime BB by brush or roller and allow to dry.

**NOTE:** For further information on applications that may not require priming or for project specific advice, please consult EnviroSystems.

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## APPLICATION

Apply a 200mm strip of Enviro HDPE to all internal and external corners, expansion joints, construction joints and to any penetrations.

**For vertical applications** – For ease of application it is recommended that the maximum length of Enviro HDPE used is no greater than 3m. Peel backing paper off gradually and press exposed Enviro HDPE onto surface and smooth out by hand, starting from the centre and working outward towards the edges.

When overlapping is required, ensure the overlap is greater than 60mm. Pressure roll all overlaps, edges and details to ensure maximum adhesion. Always start Enviro HDPE membrane application at the lowest point and work upwards to create a roof tile type appearance and seal. The top edge termination of Enviro HDPE should be into a reglet, block joint or under a mechanically fixed termination seal.

**For horizontal applications** – Starting at the lowest point in the substrate and working up the fall line, install Enviro HDPE as required ensuring a minimum overlap of 60mm and that all overlaps are pressure rolled.

**For Edges & Flashings** – On vertical surfaces, the top edge of Enviro HDPE should be fixed mechanically with a termination seal. Complete over flashing of terminations, penetrations, footings and junctions can be performed with an approved EnviroSystems compatible material such as Enviro 700X.

For further information regarding application of Enviro HDPE or for project specific advice please consult EnviroSystems.

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## OVERCOATING

Over coating of Enviro HDPE is necessary to ensure longevity. Options for over coating can include insulation board & ballast, cementitious topping slabs or screeds, tiles & pavers and acoustic overlays.

## PACKAGING & COLOURS

Enviro HDPE is available in 1.5mm x 1m x 20m and 1.5mm x 2m x 20m rolls.



## SHELF LIFE

Enviro HDPE should be stored end on end in dry, cool conditions out of direct UV and weather. Maximum storage temperature is 45°C. Always check product quality before using after prolonged periods of storage. If unsure please contact EnviroSystems for advice.

## HEALTH & SAFETY ADVICE

Enviro HDPE is non-hazardous according to Safe Work Australia criteria, however, as a precaution, always provide good ventilation when applying. Wash off splashes of material with clean water, wear gloves and eye protection. If irritation is experienced seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

**NOTE:** Safety Data Sheets are available upon request by emailing [customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)

## We're here to help you!

It is a good idea to keep a journal of your waterproofing job, whether big or small.

- Take pictures at all stages of your work, including preparation
- Record the quantity and description of products used with corresponding batch numbers
- Record dates and times of when you applied products, from start to finish

Please do not hesitate to contact us for any questions you may have.

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