Enviro BSM

APPLICATION METHOD STATEMENT

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1. Introduction

With over 85% of Australia's population living within 50km from the coast and 66% living in capital cities (www.abs.gov.au), the importance of protecting structures against ground water/ water table is paramount. The Enviro BSM membrane systems work hand in hand and have been developed to prevent expensive remediation costs associated with ground water ingress.

When installed, Enviro BSM provides a bonded waterproofing membrane system to encapsulate the concrete structure, thus preventing water ingress or migration.

Applications for Enviro BSM system include waterproofing of residential, commercial and civil structures. In addition, Enviro BSM system can be used as a methane gas barrier when construction is being undertaken on reclaimed land or where the presence of methane is detected.

When used in a systematic fashion, this complete system provides a versatile and innovative solution to the waterproofing of various below grade structures. Products incorporated in the system include (but not limited to):

- Enviro BSM
- Enviro BSM Seam Tape
- Enviro BSM Overlap Tape
- Enviro BSM Liquid Membrane
- Enviro Flex Pro
- Enviro Flashing Tape

The following pages provide information on the installation of these products and assist the waterproofing contractor from project start to finish.

2. General Information

- This installation manual has been prepared by Envirosystems Technologies and is intended to assist in the application of the Enviro BSM system to ensure a reliable level of product quality and performance.
- The design and application of the waterproofing membrane should be done so in compliance with EPA requirements and relevant government laws.
- Parameters outlined in this manual should be used as a guide for application reference.
- Envirosystems Technologies is not liable for any damage to the installed products by any party.
- Envirosystems Technologies reserves the copyright to this installation manual.

3. Product Information

3.1 Enviro BSM

3.1.1 Description

Enviro BSM is a pre-applied, composite HDPE sheet membrane system that is designed to waterproof the blindside of concrete slabs and walls. As shown in Fig. 1, Enviro BSM is composed of:

- Heavy Duty HDPE (a)
- Pressure sensitive, reactive adhesion layer (b)
- Trafficable protective layer (c)

The pressure sensitive, self-adhesive membrane (b) and fresh concrete can form an effective, impenetrable barrier as the fresh concrete infiltrates through the trafficable protective layer (c). As the mass of the structural concrete increases during the concrete pour, the pressure sensitive self-adhesive membrane is 'activated' and forms a continuous adhesive bond with the concrete poured against it. This results in excellent adhesion through the development of substantial inter-molecular forces.

After the structural concrete has cured, the space between the Enviro BSM waterproofing membrane and the structural body of the cured concrete can achieve a maximum, permanent seal, so as to eliminate the flow of water and the ingress of deteriorative agents to the structural concrete.

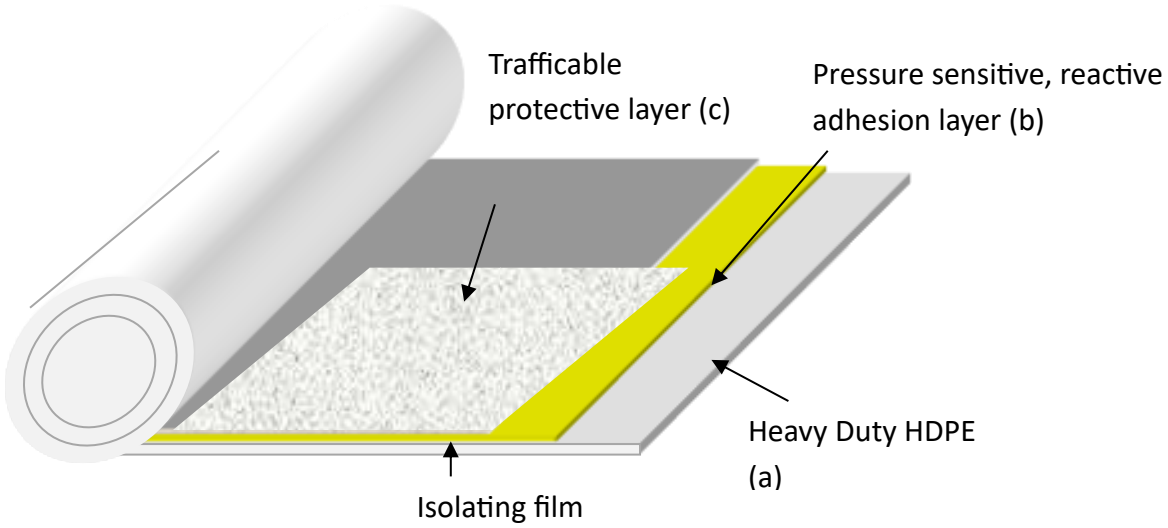


Fig.1: Layered diagram of Enviro BSM

3.1.2 Features

- Chemical & gas resistant
- Easy application
- Fully adhered lap joints
- Trafficable
- Steel and concrete placement can be immediate
- Can be applied to a variety of substrates including concrete, formwork and compacted fill

3.1.3 Uses

- Concrete foundations, walls and slab on grade
- Concrete foundations, walls and slab below grade
- Lift pits
- Crane pits
- Methane gas barrier

3.1.4 Physical Properties

Colour	White HDPE with a granular protective layer.
Form	Roll
Total Thickness	1.5 mm
Thickness of HDPE	1.2 mm
Roll Width	1m
Roll Length	20m

3.1.5 Mechanical Properties

Test Name	Test Method	Results
Channelling prevention (0.6 MPa)	-	Pass, channelling free
Crack Cycling	AS 4878.9 Part B	0 cracks; Pass
Durability against Aging	EN1296:2000	Pass
Durability against Chemicals	EN1928:2000	Pass
Elongation at Break (%)	ASTM D 6693	200
Elongation at Rupture – Longitudinal (%)	EN12311-2:2013 (method A)	627
Elongation at Rupture – Transversal (%)	EN12311-2:2013 (method A)	432
Elongation at Yield (%)	ASTM D 6693	44.3
Hydrostatic Head Resistance	ASTM D 5385-93	100psi; Pass
Joint Strength (N/50mm)	EN12317-2:2010	764
Low Temp Flexibility (°C)	ASTM D 1970	0 cracks; Pass
Methane Permeability (ml.mil/m2. Atm. Day)	ASTM D 1434	1142.3±114.5
Methane Permeance ($cm^3/m^2 \cdot Atm \cdot day$)	ASTM D 1434	30.14±3.02
Nail Tear Resistance (N)	-	400
Peel Adhesion to Concrete (N/m)	ASTM D 903	5001
Puncture Resistance (N)	ASTM D 4833	291 (top to bottom)
Puncture Resistance (N)	ASTM D 4833	412 (bottom to top)
Reaction to Fire	EN13501-1	Class E
Resistance to Impact (m)	EN12691:2006	0.7
Resistance to Tearing – Longitudinal (N)	EN12310-2:2001	556
Resistance to Tearing – Transversal (N)	EN12310-2:2001	705
Static Load (kg)	-	20

Test Name	Test Method	Results
Tensile Strength – Longitudinal (N/50mm)	EN12311-2:2013 (method A)	1037
Tensile Strength – Transversal (N/50mm)	EN12311-2:2013 (method A)	1007
Tensile Strength at Break (N/mm)	ASTM D 6693	12.7
Tensile Strength at Yield (N/mm)	ASTM D 6693	16.41
Thickness (mm)	ASTM D 5199	1.85
Water Absorption (%)	ASTM D 570	0.059
Water Tightness	EN1928:2000	Pass
Water Vapour Permeance (g/day/m²)	ASTM E 96	0.00935

3.1.6 Chemical Resistance

Stressor	Property	Result
Nil (uncontaminated concrete)	Peel Strength with post-cast concrete (MPa)	2.0
Contaminated surface		1.5
Sediment on surface		1.5
UV Thermal Aging		1.5
Thermal Aging		1.5
Water Immersion		1.5
Thermal Aging (70°C, 168 hr)	Tensile force retention (%)	90
	Elongation retention (%)	80
	Appearance	No wrinkling, sliding and
	Dimensional Change %	2.0
Low Temperature (-23°C)	Low temperature flexibility	Pass, no cracks
Sodium Chloride NaCl	Tensile Force Retention- Longitudinal (%)	100
	Tensile Force Retention - Lateral (%)	98
	Elongation Retention- Longitudinal (%)	93
	Elongation Retention- Lateral (%)	90
	Low temperature flexibility (-23°C)	Pass, no cracks
Calcium Hydroxide $Ca(OH)_2$	Tensile Force Retention- Longitudinal (%)	101
	Tensile Force Retention - Lateral (%)	103
	Elongation Retention- Longitudinal (%)	90
	Elongation Retention- Lateral (%)	92
	Low temperature flexibility (-23°C)	Pass, no cracks

Stressor	Property	Result
Sulphuric Acid H_2So_4	Tensile Force Retention- Longitudinal	101
	Tensile Force Retention - Lateral (%)	103
	Elongation Retention- Longitudinal (%)	90
	Elongation Retention- Lateral (%)	92
	Low temperature flexibility (-23°C)	Pass, no cracks

4. Product Information- Auxiliary Material

4.1 Enviro BSM Seam Tape

Enviro BSM Seam Tape is a macromolecular double-sided self-adhesive tape, which when installed correctly, will provide a complete waterproof and air seal. Enviro BSM Seam Tape is most commonly used for:

- Short edge matching.
- Damage repairing.
- Node waterproof sealing.
- Transitional overlapping with other waterproof materials.
- Adhesive sealing at T-shape overlaps.

4.2 Enviro BSM Overlap Tape

Enviro BSM Overlap Tape is a macromolecular single sided adhesive tape, with the reverse side of the tape being composed of the granular trafficable, protective layer, similar to the exposed side of the Enviro BSM. Enviro BSM Overlap tape is most commonly used for:

- Covering mechanical fixings, where they have been placed through the Enviro BSM membrane (instead of the selvedge).
- Small Damage repairs (cuts or punctures <10mm).

4.3 Enviro BSM Liquid Membrane

Enviro BSM Liquid Membrane is a low VOC, Polyurethane, liquid applied waterproofing membrane that can be used with Enviro BSM Seam tape, to ensure waterproofing sealing around:

- Nodes of pile heads.
- Plate-through pipes.
- Drain gullies.
- All penetrations and protrusions.

4.4 Enviro Flex Pro

Enviro Flex Pro is a high performance, multipurpose, neutral cure, elastomeric polyurethane joint sealant, which when cured, forms a waterproof seal. Enviro Flex Pro is typically used in conjunction with Enviro BSM Liquid Membrane and Enviro HP1600 to ensure waterproof sealing at:

- Joints
- Penetrations and protrusions.

4.5 Enviro Waterstop

Enviro Waterstop is a high performance, hydrophilic rubber strip that expands on contact with water, creating a watertight seal through the treated joint thus preventing water entry into the structure.

The Enviro Waterstop can be used in conjunction with Enviro BSM, to achieve a waterproof seal at construction joints, and penetrations.

5. Basic Requirements

5.1 Materials

- All Envirosystems products delivered to a construction site shall be equipped with the correct original with the following information:
  - Product name.
  - Supplier information.
- All Envirosystems materials should be inspected upon its delivery to the construction site, the material can only be used after ensuring no damage or contamination.
- When transporting and storing Envirosystems products:
  - Stack the products separately according to product type and specifications.
  - Avoid exposure to sun and rain.
  - Keep well ventilated.
  - Control temperature, so as not to exceed 45°C.
  - Do not stack Enviro BSM to exceed five layers, when storing horizontally.
  - Do not stack Enviro BSM to exceed one layer, when storing vertically.

5.2 Application

- All applicators shall obtain sufficient and relevant training in waterproofing and the application of waterproofing membranes.
- All scaffolding and installation infrastructure shall be installed in accordance with the relevant Australian Standard.
- The preparation and maintenance of the substrate shall be undertaken observing the design and standard requirements.
- All embedded pipe fittings shall be embedded in advance in accordance with the design and standard specifications. All embedded pipe fittings should be sufficiently sealed prior to installation of the membrane.
- Application of Envirosystems products should not occur during any form of precipitation, whilst experiencing winds greater than 40 km/h, whilst the temperature is below 5°C.
- A quality control assessment shall be completed, with full inspection and completed records indicating that the various installation procedures have been completed to a satisfactory level.
- Contractor ITP's to be adhered to and hold points signed off, as per Section 10.3.

6. Adaptability of Construction Environment

6.1 Enviro BSM

6.1.1 Membrane Pollution

After the application of Enviro BSM, there is a chance of surface contamination due to the high level of foot traffic over a construction site. Tests have shown that the integration of Enviro BSM is still effective even with minor levels of dust and sand present.

6.1.2 UV Irradiation

After the application of Enviro BSM, and before the subsequent layer of concrete is cast, the surface of the membrane is likely to be exposed to UV radiation. In contrast to bitumen based pre-applied membranes, Enviro BSM is wholly unaffected by short term exposure to the UV radiation.

6.1.3 Groundwater Immersion

Particularly in underground waterproofing, where the membrane layer may be subject to long-term water immersion, there is scope for membrane deterioration. Enviro BSM is free of migration components such as plasticisers, and has excellent performance and water immersion resistance. This will ensure that Enviro BSM maintains full adhesion to the concrete structure, even during groundwater immersion.

6.1.4 Foundation Settlement

All structures are subject to a certain degree of foundation settlement, and this is generally accounted for in the design and engineering of structures. Enviro BSM is independent of the substrate and therefore its effectiveness is not compromised by foundation settlement.

6.1.5 Reliable Quality

Enviro BSM is a light-weight and easy to install waterproofing membrane. The membrane is easily bonded to reinforced structural concrete, and due to the nature of the membrane and its application; its usage is satisfactory for a single layer application, to meet the requirements for first level waterproofing fortification criteria.

6.1.6 Shortened Construction Period

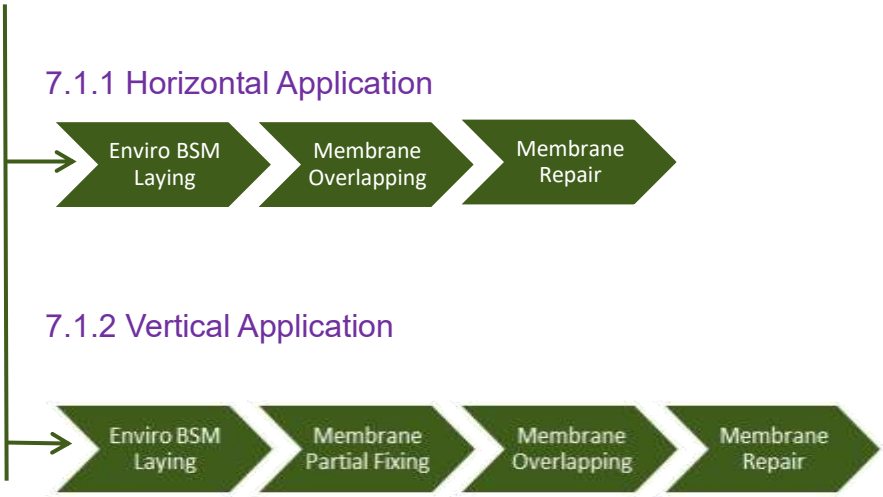
Due to the simplified design of Enviro BSM, there is a significant optimisation in the construction process. Various construction steps are avoided through the usage Enviro BSM.

6.1.7 Environmentally Friendly

Enviro BSM is free of any base coat or open flame operation which reduces the cost of resources, and eliminates safety risks.

7. Enviro BSM Application

7.1 Technical Process



7.2 Surface Preparation

The substrate for each individual application must be prepared in accordance with the respective product data sheets.

Ensure that the substrate is rigid and even, to prevent movement or subsidence during concrete placement.

7.3 Enviro BSM Application

7.3.1 Application Sequence

1. Pave all Corners and Horizontal/ Vertical interfaces (as per Section 7.3.2)
2. Pave Horizontal Run (as per Section 7.3.3)
3. Pave Vertical Run (as per Section 7.3.4)

7.3.2 Corner Application

- Pave all corners, and horizontal/ vertical interfaces, as per typical details shown in Fig. 2 to Fig. 5. Crease and Fold the membrane where required, to allow the Enviro BSM to closely follow the substrate profile.
- All folded laps should be a minimum of 100mm, and sealed with Enviro BSM Seam tape, in a similar manner to the Short Edge Overlap process (see Section 7.4.2)
- All creases at overlaps should be sealed using Enviro BSM overlap tape.

7.3.3 Horizontal Application

- Pave the membrane on the substrate with the trafficable protective layer facing upwards, and the Heavy Duty HDPE facing the substrate.

7.3.4 Vertical Application

- For vertical applications, Enviro BSM should be mechanically fixed to the substrate with the trafficable protective layer facing the concrete pour, and the Heavy Duty HDPE facing the substrate.
- Mechanical fixings should be placed through the selvedge at the self-adhesive edge of the Enviro BSM membrane (see Fig. 6), with their position being:
    - 10 to 20mm from the edge of the membrane.
    - Centre to centre distance between adjacent fixings being 400-600mm.
- Any mechanical fixings used should have a low profile head so that the overlapping membrane can be rolled evenly to allow for optimum adhesion.
- When laying the adjacent, overlapping membrane, the upper membrane should completely cover the nail holes on the lower membrane, to ensure an impervious waterproof barrier.
- See Section 7.4 for recommended membrane overlapping process; please note that the protective plastic film can be removed immediately in vertical applications.

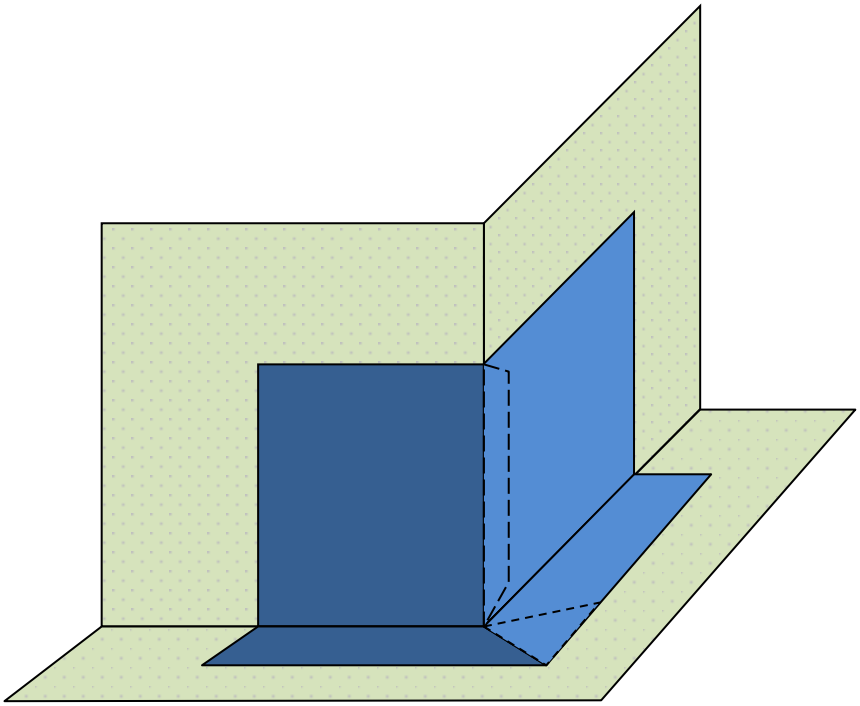


Fig. 2: Typical BSM convex corner detailing.

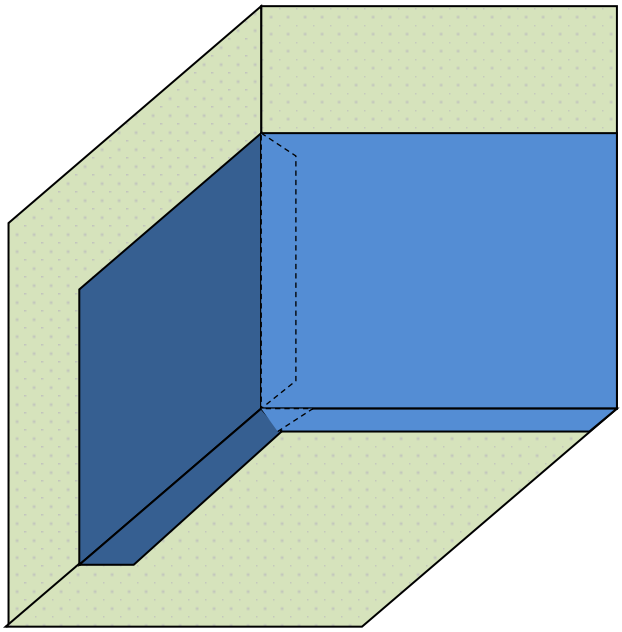


Fig. 3: Typical BSM concave corner detailing.

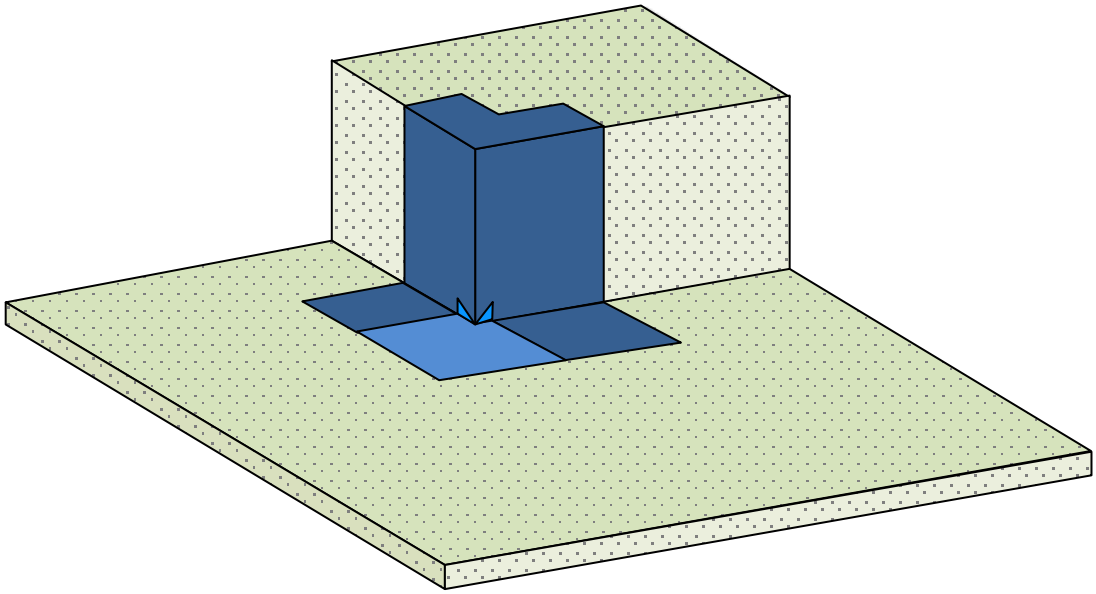


Fig. 4: Typical BSM convex corner detailing.

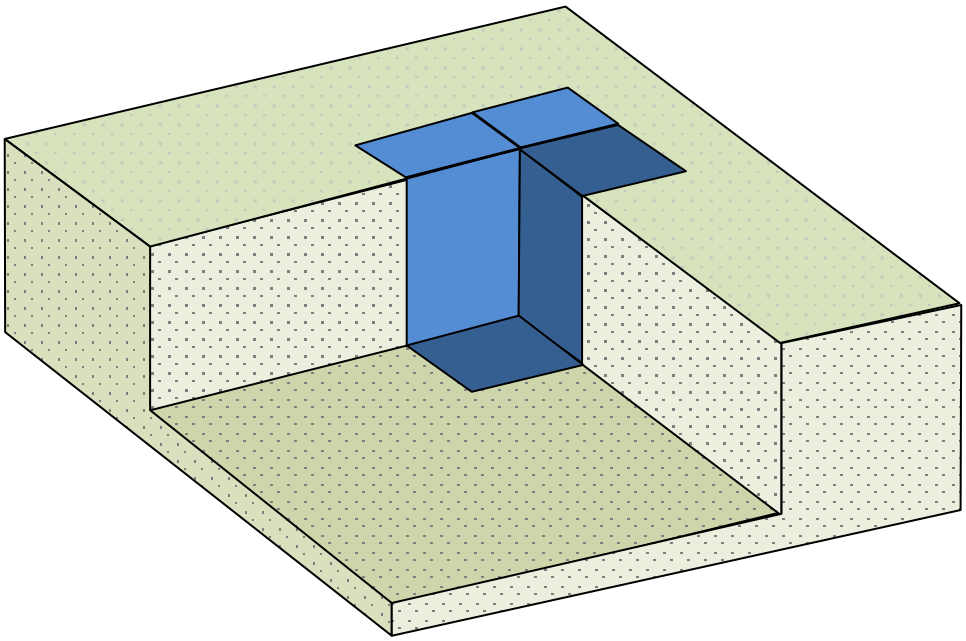


Fig. 5: Typical BSM concave corner detailing.

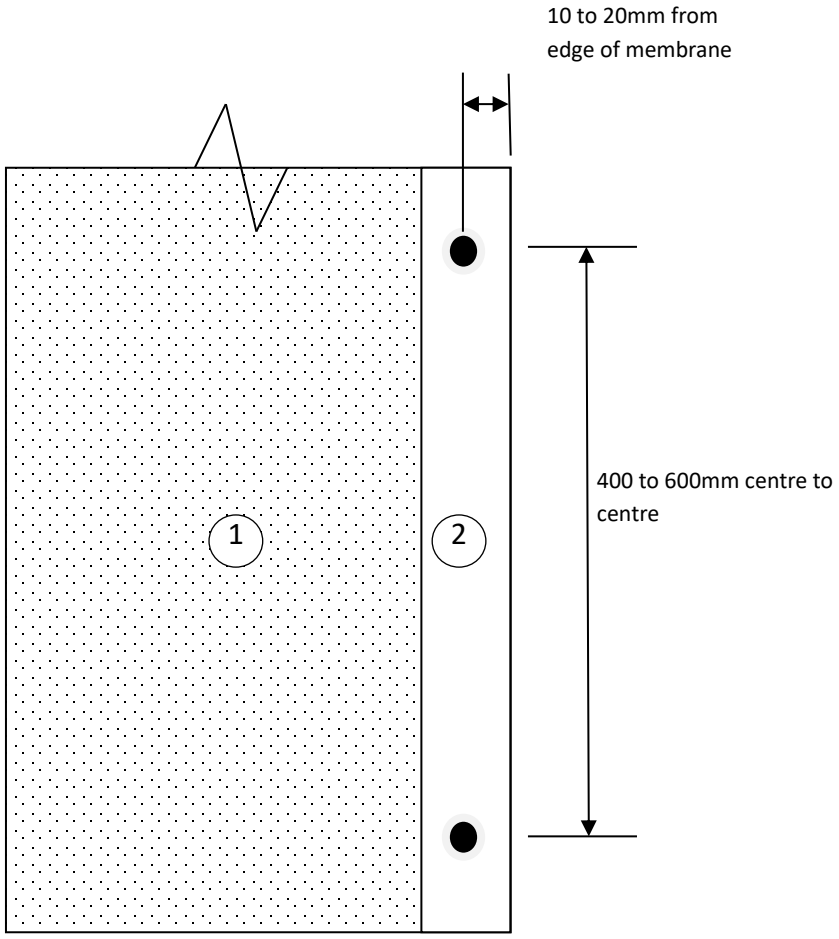


Fig. 6: Elevation, showing typical arrangement of mechanical fixings on Enviro BSM

1. Trafficable, Protective Layer
2. Selvedge

7.4 Membrane Overlapping

7.4.1 Long Edge Overlapping

- Ensure that the overlapped edges are aligned correctly to avoid deviation; the lap joint at the selvedge should be 75mm.
- Ensure the back (Heavy Duty HDPE side) of each roll is clean before commencing the overlapping application.
- Remove the isolating film, and compact the overlap directly using a seam roller, to ensure a complete bond with no creases.

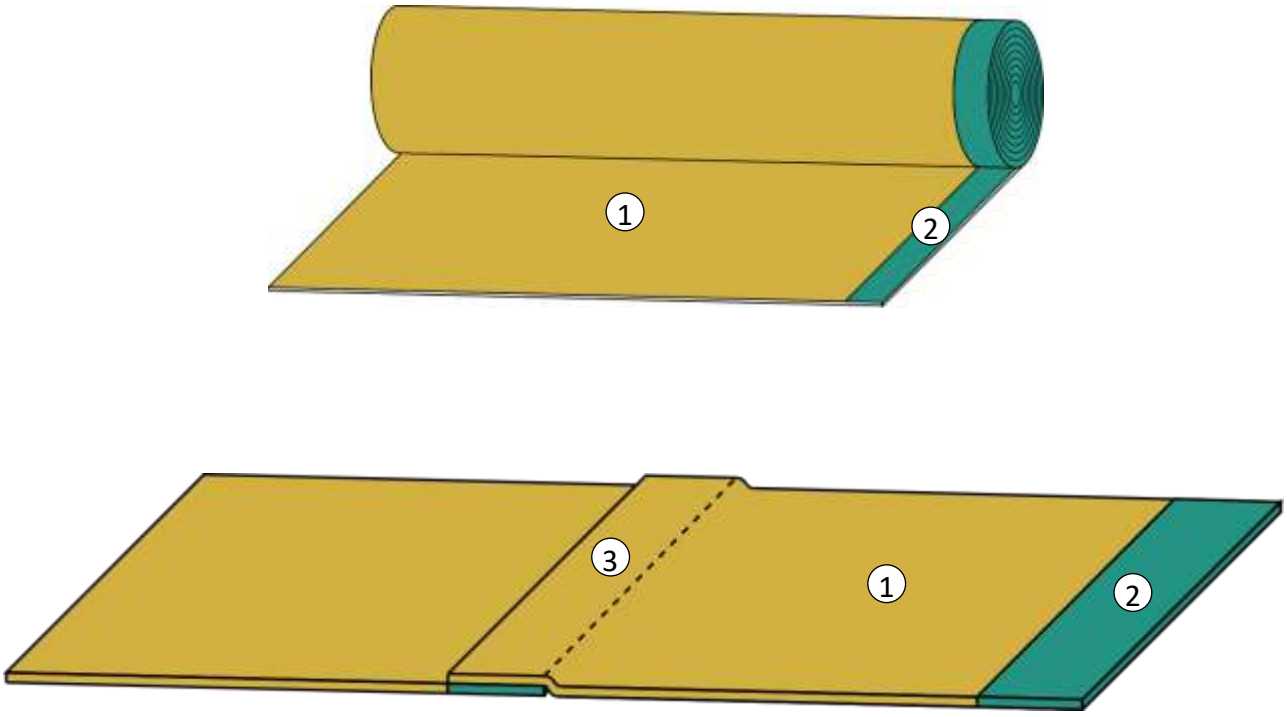


Fig. 7: Long Edge Overlapping Process

1. Trafficable, Protective Layer
2. Selvedge
3. Long Edge Overlap

7.4.2 Short Edge Overlapping

- Remove 75mm of the trafficable protective layer on the bottom layer of lap, using a heat gun and scraper.
- Remove the interior isolating film, and apply Enviro BSM seam tape to the 75mm run of 'cleaned' BSM, and compact using a seam roller
- Position the upper lap of the Enviro BSM, ensuring a full and aligned overlap. Once the lap is positioned correctly, starting from one side and working to the other, slowly remove the black top release film, while firmly rolling the joined sheets together with the seam roller.
- It is also recommended to stagger the short edge overlap between adjacent runs of Enviro BSM to avoid a build-up of material.

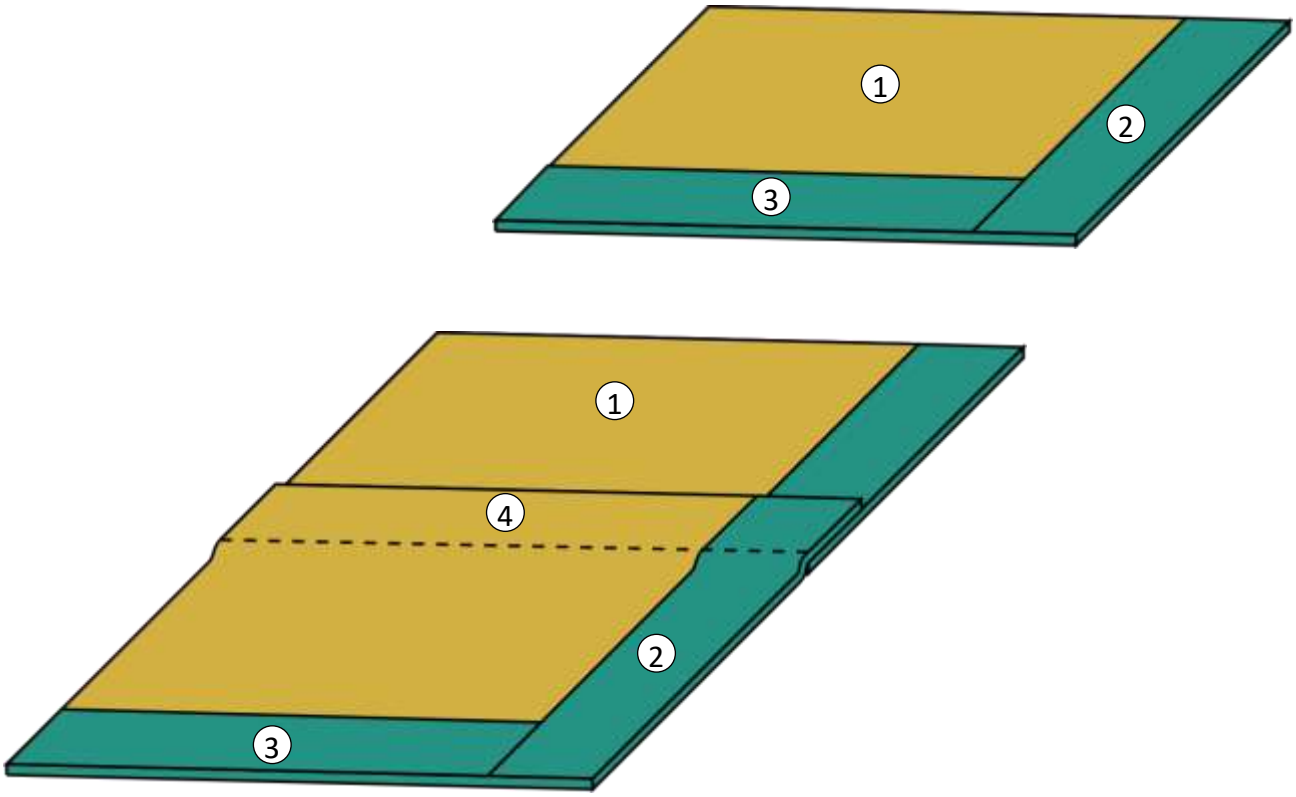


Fig. 8: Short Edge Overlapping Process

1. Trafficable, Protective Layer
2. Long Edge
3. 'Cleaned' BSM at Short Edge
4. Short Edge Overlap

7.4.3 Enviro Liquid Membrane Overlapping

For the detailing of finishes on pile caps and penetrations, Envirosystems Technologies recommends the application of Enviro BSM Liquid Membrane at a minimum overlap of 150mm over the adjacent Enviro BSM membrane and pile cap/ penetration.

7.5 Miscellaneous Items

7.5.1 Enviro BSM Repair

- If the Enviro BSM is damaged during the construction process (for example during; formwork installation, or steel reinforcement placement), it is imperative that any damage is repaired prior to concrete placement.
- Small cuts and punctures (<10 mm), can be repaired using Enviro BSM Overlap tape. Simply cover the damaged section of the membrane with Enviro BSM Overlap tape, and compact with a seam roller to ensure an impervious bond.
- Larger cuts and punctures can be patched using Enviro BSM. A segment of Enviro BSM should be cut out and placed above the damaged area of the original membrane, ensuring a 150mm lap around the damaged area.
- The patched section of the Enviro BSM should then be sealed using Enviro BSM Seam Tape, in a similar fashion to the short edge overlapping process (see Section 7.4.2).

7.5.2 Damage to the Protective Layer

If the trafficable, protective layer on the Enviro BSM is removed or damaged during installation, care should be taken to protect the exposed heavy duty HDPE from damage. The heavy duty HDPE acts as an impervious waterproofing barrier, and any damage to this membrane would jeopardise the waterproofing capacity of the Enviro BSM system.

It is suggested to protect the membrane from potential damage using a plywood protection board, or an additional piece of Enviro BSM above any areas where the trafficable, protective layer has been removed. Ensure any punctures are repaired as soon as they are identified.

Potential sources of damage to Enviro BSM, which should be addressed, are:

- Damage during steel fixing operations, arising from either steel reinforcing mesh or tools puncturing the membrane.
- Damage during welding operations, due to welding slag coming into contact, and damaging the membrane.
- Damage arising from the fixing of plant equipment to the substrate, with mechanical fixings penetrating the membrane.
- Damage during concrete placement, due to sharp objects such as shovels, wheel barrow, concrete pump hose or mechanical vibrators damaging the membrane.

7.5.3 Concrete Placement

The following items should be actioned prior to the placement of the concrete:

- The surface of the Enviro BSM should be washed, to remove any excess debris, using fresh water (and a high pressure hose if required).
- The plastic film above the trafficable, protective layer should be removed.
- Concrete should be poured within 30 days of Enviro BSM application.
- Concrete placement and consolidation should be done in a manner so as to avoid damage to the membrane, i.e. no sharp objects or instruments.
- The concrete should reach a minimum compressive strength of 10 MPa, before any temporary formwork is removed.

7.5.4 Enviro BSM Quality Assurance

The quality assurance processes that should be carried out on Enviro BSM involve visual inspection of the membrane at the following points:

- After the completed installation of the membrane and prior to the commencement of steel fixing.
- After the completed installation of reinforcing steel, and prior to the commencement of concrete placement.

  Key inspection points include:

  - Ensure continuity of membrane, with strong adhesion at all laps.
  - Ensure that the membrane is intact with no damage; any identified damage should be repaired as per product recommendations.
  - Ensure all plastic film on the membrane is removed, and the surface is free from debris.
- After concrete placement and curing, and prior to the removal of temporary formwork.

  Key inspection points include:

  - Ensure that the concrete has achieved a minimum compressive strength of 10 MPa.
  - Ensure sufficient bond between the Enviro BSM and structural concrete.

7.5.5 Required Equipment for Enviro BSM Installation

Applicators should have access to the following tools to allow for the efficient installation of the Enviro BSM membrane:

- Tape Measure
- Seam Roller
- Cutting surface and straight edge
- Utility knife
- Personal Protective Equipment
- Brush/ Roller (for the application of Enviro BSM Liquid Membrane, if required)
- Other equipment may be needed from time to time depending on on-site conditions

8. Quality Inspection & Assurance

8.1 General Requirements

The accredited waterproofing contractors' Inspection Test Plan (ITP) is to be followed and all hold points, and inspections, are to be recorded and sign off prior to subsequent works commencing.

8.1.1 General Items

The membrane and all supporting materials of the waterproof layer shall conform to the design requirements.

- Inspection Methods: Visual inspection and inspection records for concealed works.

The processing of the membrane at corners, deformation joints, construction joints and through wall pipes shall conform to design requirements.

- Inspection Methods: Visual inspection and inspection records for concealed works.

The completed membrane waterproof layer shall be free from leakage.

- Inspection Methods: After rain test, water spray test or water storage test.

The overlapping joint of the membrane layer shall be firmly bound and tightly sealed, free of distortion, creasing, edge lifting and bubbling etc.

- Inspection Methods: Visual Inspection.

8.1.2 Quality Assurance

It is recommended to keep a record of the following items, which will form part of the quality assurance records for a project:

- Design drawing of proposed waterproofing system and record of any design changes and variations.
- The relevant certification records of the major manager and professional certificate of major operator.
- Construction schedule details and Safe Work Method Statements.
- Material record and sampling test report.
- Construction journal, construction inspection records, records of water spray test or water storage test, and inspection record of concealed works.

8.2 Additional Information

- Ensure that all installation contractors are wearing the correct Personal Protective Equipment (PPE), as per product and site requirements.
- Ensure sufficient stock of Envirosystems materials on site to cover the scheduled requirements. It is recommended to store all materials in a cool, dry area to avoid the possibility of physical damage. Where this is not possible it is suggested to stagger deliveries to avoid excessive stock being stored on site.
- Store rolls of Enviro BSM vertically and keep covered until required.
- Ensure Enviro BSM rolls are dry before application.
- It is recommended to mechanically fix Enviro BSM through the selvedge. This will allow the fixings to be covered by the next overlapping sheet of Enviro BSM.
- Where it is not possible to apply a fixing through the selvedge, use Enviro BSM Overlap Tape to cover fixings.
- When vertically fixing Enviro BSM to temporary formwork, use clout nails and ensure a minimum 20mm of nail is left exposed. This exposed nail will be covered during concrete placement and act as an anchor when the temporary formwork is removed.
- Do not use staples to fix Enviro BSM to temporary formwork.
- To ensure maximum contact in corners and changes in direction of the substrate, firmly fold Enviro BSM at these points.
- Any creasing of Enviro BSM at overlaps and selvedge's should be sealed with Enviro BSM Overlap Tape.
- Where possible, limit curved shapes in formwork, as this is more difficult to detail.
- Ensure Enviro BSM is terminated a minimum of 50mm from the top of the concrete surface on any temporary formwork.
- Extend Enviro BSM beyond the starter bars to ensure ease of overlapping for subsequent concrete pours.
- Consult Envirosystems Technologies if the ambient temperature during application falls below 0°C.
- Clean all debris from the surface of Enviro BSM prior to concrete placement. Difficult to remove debris, such as mud and grout may be removed by high pressure water equipment.

- Ensure that any excess ponding water on the surface of Enviro BSM is removed prior to concrete placement.
- Ensure that there is no water ponding beneath the Enviro BSM before concrete placement, as this may lead to the damage to the bond at the joints between adjacent sheets.
- Conduct a final visual inspection immediately prior to concrete placement to ensure that there has been no damage to Enviro BSM during steel fixing. Repair any damage to Enviro BSM as per recommended practices.
- Do not allow any tools to come in contact with Enviro BSM during concrete placement.
- Concrete strength should be a minimum of 10MPa before formwork is removed. This will prevent displacement of the membrane, and damage to the concrete.
- Enviro BSM should only be used with reinforced structural concrete, do not use a protection screed, and do not use as a pond or tank liner.
- Do not bond Enviro BSM with any other waterproofing membrane, unless confirmed with both Envirosystems Technologies and the alternate supplier.
- Ensure that the minimum overlap distance between Enviro BSM and Enviro HP1600/ Enviro Liquid Membrane is 150mm.
- Ensure that the dual component plural mixer reaches a minimum temperature of 60 degrees Celsius prior to commencing spray operations.
- Ensure that the dual component plural mixer, is well maintained and in good working order, to ensure that the Enviro HP1600 is dispensed in the correct ratio.

9. Cold Weather Precautions

The construction difficulties associated with the installation of Enviro BSM in low temperatures resolves around the effective overlapping of the long and short edge of the membrane. The following measures can be taken to ensure product quality and ease of application:

- Store materials in an enclosed warehouse to ensure they are not exposed to low temperatures.
- When conducting the overlapping of the membrane, use a hot air gun to heat the adhesive face of the membrane prior to sticking. This recovers the viscosity lost due to low temperature and ensures optimum adhesion.
- Increasing the rate of application (use a greater number of applicators) to avoid the occurrence of precipitation.

It is not anticipated that low temperatures will impact on the application of Enviro HP1600, due to the fact that the product is spray applied at an elevated temperature.

10. Safe Construction Methods

- Sprinkle water when cleaning the substrate.
- Progressively collect all debris such as; membrane cores, isolating films and product packaging, and dispose of them in the designated area.
- Adhere to noise regulation and policy.
- Ensure that all personnel have received adequate safety training. Anyone who has not must not be permitted onto site.
- Ensure that all personnel are wearing appropriate PPE at all times.
- All machinery and powered tools should be used in accordance with their correct; procedure, safety requirements and training.

11. Contact Envirosystems

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