

Enviro BSM

Pre-applied, Fully Bonded Blindside Waterproofing Membrane

DESCRIPTION

Enviro BSM is a 1.2mm pre-applied, fully bonded blindside waterproofing membrane designed to waterproof the blindside of concrete slabs and walls. It consists of a white virgin HDPE/TPO sheet, a pressure-sensitive adhesive layer, and a weather-resistant, trafficable granular protective layer.

Once concrete is poured against it, Enviro BSM forms a fully bonded membrane that encapsulates the concrete structure, preventing water ingress and lateral water migration. Its adhesive seldge and back-coated seldge dual-edge design allows adhesive-to-adhesive overlaps for stronger, more reliable seams, even under harsh site conditions including water exposure, low temperature, and humidity.

CLASSIFICATION

EN 13967 – Flexible sheets for waterproofing (CE certified)

EN 13501-1 – Reaction to fire: Class E

AREAS OF USE

SURFACES: Blindside and below-ground concrete foundations, walls, and slabs on ground, new and existing

AREAS: Basement waterproofing for industrial, commercial, and civil buildings, lift pits, swimming pools, below-grade water tanks, and pre-applied waterproofing for tunnels, subways, and underground structures

FEATURES & BENEFITS

- Pre-applied and fully bonded to the poured concrete, preventing lateral water migration.
- Dual seldge design for adhesive-to-adhesive, fully adhered lap joints
- White virgin polymer sheet (non-recycled raw material) – clean and easily identifiable
- Outstanding weather resistance – withstands UV, rain, and dust exposure for up to 49 days.
- Excellent dimensional stability (dimensional variation $\leq 0.5\%$) with less wrinkling
- High impact and puncture resistance, reducing the risk of construction damage.
- Superior acid, alkali, and salt resistance for harsh soil environments
- Suitable for wet and submerged site conditions – achieves effective overlap in water.
- Trafficable – steel fixing and concrete placement can proceed immediately.
- Solvent-free and complies with EU REACH regulation.

PRODUCT INFORMATION

Packaging	1.0m x 20m Rolls
Thickness	$\geq 1.2\text{mm}$
Weight	1.3 kg/m ²
Colour	White HDPE/TPO sheet with granular protective layer
Shelf Life	12 months from the date of manufacture if stored as per storage recommendations (first in, first out)
Storage Conditions	Store upright in a cool, dry, ventilated area between 5°C and 35°C. Avoid direct sunlight, rain, and heat. Maximum stacking 5 layers.
Compatible Accessories	Enviro BSM Double-sided Seam Tape (L10m x W100mm) Enviro BSM Sanded-lapping Tape (L20m x W100mm)

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Thickness	EN 1849-2:2019	$\geq 1.2\text{mm}$
Tensile Force – Longitudinal	EN 12311-2:2013	$\geq 600\text{ N/50mm}$
Tensile Force – Transverse	EN 12311-2:2013	$\geq 600\text{ N/50mm}$
Elongation at Rupture – Longitudinal	EN 12311-2:2013	$\geq 500\%$
Elongation at Rupture – Transverse	EN 12311-2:2013	$\geq 500\%$
Resistance to Tearing – Longitudinal	EN 12310-2:2018	$\geq 250\text{ N}$
Resistance to Tearing – Transverse	EN 12310-2:2018	$\geq 250\text{ N}$
Shear Resistance of Joints	EN 12317-2:2010	$\geq 300\text{ N/50mm}$
Resistance to Static Loading	EN 12730:2015	20kg, no leakage
Resistance to Impact	EN 12691:2018	$\geq 400\text{mm}$
Watertightness	EN 1928:2000	No pressure drop
Durability Against Ageing	EN 1926:2000; EN 1847:2009	No pressure drop
Durability Against Chemicals	EN 1926:2000; EN 1847:2009	No pressure drop
Reaction to Fire	EN 13501-1+A1:2009	Class E



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All technical data is obtained from standard laboratory tests under controlled conditions. Actual values may vary due to construction methods, substrate, temperature, and site environment.

COVERAGE RATE

Roll Size	Area per Roll	Thickness
1.0m x 20m Roll	20m ²	≥ 1.2mm

Coverage per roll is gross area. Allow for 75mm laps and wastage when estimating.

SUBSTRATE PREPARATION

The substrate must be solid, smooth, clean, even, and free of sharp stones, dust, grease, cracks, and loose particles, to prevent movement or subsidence during concrete placement. Repair any uneven areas; there should be no protrusions, gaps or voids greater than 10mm.

Stabilise penetrations such as plumbing and electrical pipes to prevent movement during membrane and concrete placement.

Horizontal: Ensure the substrate is sound, especially over compacted fill, to avoid displacement from traffic or concrete pouring.

Vertical: Ensure the substrate is sound and provides the support the membrane needs during concrete placement.

APPLICATION

Membrane Laying: Unroll and position Enviro BSM to the designed layout, keeping it flat and straight without wrinkles, sags, or misalignment. Adjust position gently to avoid unnecessary movement or damage.

Horizontal Applications: Place the membrane with the protective layer facing upwards and the white sheet facing the substrate. Stagger end laps to avoid a build-up of layers.

Vertical Applications: Mechanically fix the membrane to the substrate with the protective layer facing the concrete pour. Place fixings only within the overlap section and use low-profile heads so laps lie flat and can be rolled evenly. The release film can be removed immediately.

Lap Treatment: Overlap each previous sheet by 75mm at the adhesive selfedge. Keep overlapping surfaces clean and dry, remove the release film from the lap and roll firmly with a heavy roller to achieve a complete, crease-free adhesive-to-adhesive bond.

Detailing: Overlap all cut edges and roll ends by 75mm and seal with Enviro BSM Seam Tape. Use fixing disks, detail strips, and sealant to secure the membrane, end laps, and details, ensuring all connections are firmly sealed

against water ingress.

Repairs: Repair cuts or punctures smaller than 10mm with Enviro BSM Seam Tape. For larger damage, apply an Enviro BSM patch extending at least 150mm past the damaged area and seal the edges with Enviro BSM Seam Tape.

Protection & Concrete Placement: Protect the installed membrane from sharp impact, dragging, and construction damage. Pour concrete within 30 days of installation; if this is not possible, consult Enviro systems. Place and consolidate concrete without sharp instruments.

Formwork Removal: Do not strip formwork until the concrete reaches a minimum compressive strength of 10 MPa, to avoid displacement of the membrane or damage to the concrete.

For applications or situations not covered above, contact Enviro systems technical support.

CLEANING

Keep lap areas clean and dry, and remove dirt, water, or debris from selfedge before bonding. For cleaning recommendations, contact Enviro systems technical support.

LIMITATIONS

- Do not leave the membrane exposed for more than 30 days before concrete placement.
- Store out of direct sunlight, rain, and heat.
- Do not install over substrates with voids, gaps, or protrusions greater than 10mm.

HEALTH & SAFETY ADVICE

Enviro BSM is non-hazardous according to Safe Work Australia criteria. It is solvent-free and complies with EU REACH regulation. As a precaution, provide good ventilation and wear appropriate personal protective equipment, including gloves and eye protection, during installation. If irritation occurs, seek medical advice. Dispose of waste in accordance with local environmental regulations. Refer to the Safety Data Sheet for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN



WATERPROOFING

Enviro BSM

Pre-applied, Fully Bonded Blindsight Waterproofing Membrane



STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by EnviroSystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not EnviroSystems, are responsible for carrying out procedures appropriate to a specific project.

NOTE: All products manufactured by EnviroSystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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