

Enviro Hydrostatic 1

Flexible Cementitious Waterproofing Membrane

DESCRIPTION

Enviro Hydrostatic 1 is a flexible, polymer-modified cementitious membrane based on advanced cross-linking polymer technology. Mixed with water, it forms a high-quality liquid membrane for concrete, masonry, and natural stone, for positive or negative pressure. The cured film is watertight yet vapour permeable, with excellent freeze-thaw durability and outstanding adhesion.

AREAS OF USE

SURFACES: New concrete, uncoated fibre cement, renders, compressed fibre cement, and natural stone including sandstone.

AREAS: Basement and cellar walls, fish ponds, water features, swimming pools, lift pits and potable water containment.

FEATURES & BENEFITS

- Flexible cementitious membrane
- Bonds to damp surfaces – no primer required.
- Single part – just add potable water.
- Positive pressure resistance to 60m head
- Negative pressure resistance to 15m head
- Suitable for immersion and below-ground use
- Resistant to salts and carbonation
- Low VOC; excellent vertical hold-up

PRODUCT INFORMATION

Packaging	15kg bags (64 bags per pallet)
Shelf Life	12 months from date of production in original sealed packaging
Storage Conditions	Store in a cool, dry place.
Compatible Additives	Enviro Mortar Additive
Compatible Remedial	Enviro Plug
Compatible Accessories	Enviro Joint Band

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Adhesion to Concrete	–	>1.1 MPa
Elongation	–	85%
Water Vapour Diffusion	–	1.5 (Sd value)
Water Pressure – Positive	–	60m head
Water Pressure – Negative	–	15m head
Pot Life	–	60 minutes
Recoat Time	–	1–3 hours
Tiling and Topping	–	Min. 48 hours
Cure – Negative Pressure Exposure	–	7 days
Cure – Immersion	–	10 days

COVERAGE RATE

Application	m ² / bag	Coats	Finished DFT
General Positive Side	10.5	2	1.5mm
Immersed / Precautionary Negative Side	8.0	2	2.0mm
Negative Side Under Pressure	6.4	3	2.5mm

Maximum WFT per coat 1.5mm. Coverage depends on substrate type and condition.

SUBSTRATE PREPARATION

All defective host substrate must be removed prior to application, including cracked or structurally weakened surfaces and chloride-contaminated or carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications.

All surfaces must be free of dust, oils, and contaminants; this may require steam cleaning or high-pressure water blasting. Do not apply to concrete treated with curing compounds.

Priming: No primer required. Thoroughly wet the surface before application (not dripping) to aid workability and prevent rapid drying on porous surfaces.



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APPLICATION

Mixing: Mix one 15kg bag with 3.6–4.05L of water (240–270 mL per kg for smaller quantities). Add two-thirds of the water to a clean pail, slowly add the powder while mixing with a paddle at about 400 rpm until lump-free, add the remaining water and mix until homogeneous. Allow to stand for a few minutes, then lightly re-stir.

Application: Apply by soft or stiff bristle brush, medium-nap roller, or spray (equipment suited to aggregate up to 600 microns). Apply the first coat – especially for negative pressure – with a stiff bristle brush to work it into surface pores, brushing in one direction to a uniform coat. Apply subsequent coats at 90° to the previous coat, uniformly covering the whole surface.

Positive-side Junctions: Bed Enviro Joint Band (rubber face down) into a liberal wet coat at wall/floor and wall/wall junctions and movement joints, then brush over to cover. Do not let the coat skin before embedding the band.

Negative-side Junctions: Use Enviro Joint Band on wall/wall and movement joints. At base wall/floor junctions, chase in at least 20mm deep (40mm for heavier flows) and form a fillet with Enviro Plug; apply the membrane once the Enviro Plug has hardened.

Overcoating: Recoat with itself after 1–3 hours (23°C, 50% RH, good airflow). Topping and tiling after at least 48 hours. Where screeds or renders are applied directly over the membrane, use an Enviro Mortar Additive bonding slurry.

Protect from rain for at least 24–48 hours. Direct sun or strong wind can affect workability. Before contact with drinking water, rinse the surface thoroughly to remove residues.

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

CLEANING

Clean tools and surfaces immediately with water before the product cures. Cured material must be removed mechanically.

LIMITATIONS

- Do not apply to concrete treated with curing compounds.
- Maximum 1.5mm WFT per coat.
- Protect from rain for 24–48 hours after application.

HEALTH & SAFETY ADVICE

Enviro Hydrostatic 1 is considered a hazardous dust according to Safe Work Australia criteria. Always ensure good ventilation and wear an appropriate

dust mask, gloves, and eye protection. Wash off splashes with clean water. If irritation occurs, seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN

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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