



Enviro Hydrostatic 1

APPLICATION METHOD STATEMENT

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Introduction

Enviro Hydrostatic 1 is a flexible polymer modified cementitious membrane based on advanced cross-linking polymer technology. The addition of water to the Hydrostatic 1 powder forms a high-quality, liquid membrane system. Hydrostatic 1 should be applied over concrete, masonry and natural stone substrates, for positive or negative pressure. The cured film provides a watertight membrane that is permeable to vapour diffusion and offers excellent freeze-thaw durability, as well as outstanding adhesion properties.

The following sections provide comprehensive instructions for the preparation of substrates and the correct installation procedures for Enviro Enviro Hydrostatic 1.

General Information

This installation manual has been developed by EnviroSystems Technologies to support the structured and consistent application of EnviroSystems waterproofing systems, with the objective of ensuring optimal product performance and quality control.

The design and installation of waterproofing membranes must be executed in accordance with applicable Environmental Protection Authority (EPA) regulations and all relevant statutory and legislative requirements.

The procedures and parameters detailed herein are intended to serve as general application guidelines and should be interpreted as such. This document does not supersede operational protocols or contractual requirements. All over coat times within this document are based on the temperature being 25°C and 50% RH. Different temperature conditions can affect the curing times.

EnviroSystems Technologies accepts no liability for any damage, failure, or deficiency resulting from improper handling, installation, or subsequent modification of the products by any third party.

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Product Specification

| Component | Details |
|-----------|---|
| Substrate | <p>Enviro Hydrostatic 1 can be applied over the following suitably prepared substrates:</p> <ul style="list-style-type: none"> • Concrete • Blockwork (flush joints) • Most other porous masonry substrates |
| Membrane | <p><u>Enviro Hydrostatic 1</u></p> <p>Applied at the following coverage rates.</p> <ul style="list-style-type: none"> • General Positive Side Waterproofing – 2 coats of 1mm WFT which results in a finished DFT of 1.5mm. • Immersed and Precautionary Negative Waterproofing – 2 coats of 1.35mm WFT which results in a finished DFT of 2.0mm. • Preventing Ingress of Water Under Pressure from Negative Side Waterproofing – 3 coats of 1.15mm WFT which results in a finished DFT of 2.5mm. |

Application Procedure

Application is to be done by accredited applicators only and strictly in accordance with the product data sheet. The appropriate product data sheets should be read and understood thoroughly before the application.

SUBSTRATE PREPARATION

Concrete

- All defective host substrate must be removed prior to application. Defective material includes cracked or structurally weakened surfaces and chloride contaminated and carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications. All surfaces must be free of dust, oils, and surface contaminants.

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Mixing

- Enviro Hydrostatic 1 is supplied in packages of 15 kgs.
- One 15kg bag of Enviro Hydrostatic 1 should be mixed with 3.7L - 4.0L of water. If mixing smaller quantities use the ratio 240ml - 270ml of water per kg of powder.
- Step 1. Add 2/3 of the required water to a clean pail.
- Step 2. Slowly add the powder to the water while using an electric stirrer with a paddle attachment and mix at medium speed (approx. 400rpm) until the mixture is lump free.
- Step 3. Add the balance of the required water and continue to stir until a homogeneous product is formed.
- Step 4. Allow the product to settle for a few minutes before lightly re-stirring. The product will then be ready to use.

Application

- Hydrostatic 1 can be applied using a soft or stiff fibre bristle brush, medium nap roller or spray applied. Spray equipment must be suitable for products with aggregate up to 600 micron.
- Application of the first coat (for negative pressure applications) is best performed using a stiff fibre bristle brush to aid penetration into surface pores.

- Brush liberally and do not extend as per paint, brushing in one direction to leave a uniform coat so the surface cannot be seen. Subsequent coats can be applied by roller/spray and must be applied perpendicular (90°) to the previous coat.
- Application by brush or roller must be undertaken with the maximum attention to uniformly covering the whole surface.
- For positive side sealing, use the Enviro Joint Band detailing tape as the bond breaker for wall/floor and wall/wall junctions and general movement joints. Install by brushing a liberal coat of Enviro Hydrostatic 1 laying the Enviro Joint Band, rubber strip face down, into the wet coat. Brush over the top with more Enviro Hydrostatic 1 to cover and hold in place. It is important that Enviro Joint Band is bedded into a wet coat of membrane. Ensure product mix does not skin/dry before embedding Enviro Joint Band.
- For negative side sealing at junctions, Enviro Joint Band can be used on wall/wall and general movement joints; Enviro Plug can be used to create a fillet at base wall/floor junctions. A grinder should be used to chase into wall/floor to a minimum depth of 20mm. Increase to 40mm for heavier flows. Mix Enviro Plug as directed and create a fillet at the junction. Enviro Hydrostatic 1 can be applied as soon as Enviro Plug has hardened and will not be disturbed by overcoating.
- Protect Hydrostatic 1 from rain for at least 24 – 48 hours after application. Application in direct sunlight or in strong winds can affect workability of the product. Temperature, humidity and surface porosity can affect drying times. Before contact with drinking water rinse membrane surface thoroughly to remove surface residues and contaminants.

Overcoating

- Enviro Hydrostatic 1 can be re-coated with itself between 1 and 3 hours depending on conditions including good air flow, 50% relative humidity and a temperature of 23°C.
- Overcoating, including topping and tiling applications, can be carried out after a minimum period of 48 hours, again depending on conditions. If there is uncertainty about the conditions, allow to cure for a longer period.
- An undiluted coat of Enviro Prime WB is recommended as a bonding agent over Enviro Hydrostatic 1 when screeds and renders are being directly applied over the membrane.

Product Application Summary Table

| | Product | Dry Film Thickness (min) | Minimum Overcoat | Maximum Overcoat |
|---------|----------------------|---|-------------------------|-------------------------|
| Coating | Enviro Hydrostatic 1 | 1.5mm – General Positive Waterproofing | 3 hours | 7 days |
| | Enviro Hydrostatic 1 | 2mm – Immersed and Precautionary Waterproofing | 3 hours | 7 days |
| | Enviro Hydrostatic 1 | 2.5mm – Preventing Ingress of Water Under Pressure on the Negative Side | 3 hours | 7 days |

Basic Requirements

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.

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.
- Ensure that all installation contractors are wearing the correct Personal Protective Equipment (PPE), as per product and site requirements.
- Contractor ITP's to be adhered to and hold points signed off.

Quality Inspection & Assurance

General Requirements

The approved waterproofing applicators Inspection Test Plan is to be followed and all hold points, and inspections, are to be recorded and sign off prior to subsequent works commencing.

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