

Enviro Hydrostatic 1

Flexible Cementitious Waterproofing Membrane



DESCRIPTION

Based on advanced cross-linking polymer technology, Enviro Hydrostatic 1 is a single component flexible polymer modified cementitious membrane. 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. 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.

FEATURES

- Flexible
- Low VOC content
- Bonds to damp surfaces (no primer required)
- Single part (just add potable water)
- Compatible with Enviro GTA and Enviro GTX tile adhesives
- Suitable for immersion and underground applications
- Positive pressure to 60m head
- Negative pressure to 15m head
- Resistant to salts and carbonation
- Water-based
- Excellent vertical hold-up
- Crack bridging up to 1mm

TYPICAL USES

Enviro Hydrostatic 1 is suitable for commercial, industrial and residential applications in the following areas:

- Basement Walls
- Cellar Walls
- Fish Ponds
- Swimming Pools
- Lift Pits
- Potable Water Containment

PHYSICAL PROPERTIES

Adhesion to concrete	>1.1MPa
Elongation	85%
Water Vapour Diffusion	1.5 (SD value)
Water Pressure (positive)	60m head
Water Pressure (negative)	15m head
Pot Life (at 23°C)	60 mins
Re-coat Time	1-3 hours
Cure Time for Exposure to Negative Water Pressure	7 days
Cure Time for Immersion	10 days

SUBSTRATE PREPARATION

Surfaces must be clean, free of gypsum and foreign matter including oil and wax residues, curing/release agents and any other contaminants that may compromise adhesion. Surfaces must be in a solid, sound state prior to beginning the application. All sharp objects are to be removed and all voids filled flush with a suitable cementitious repair compound, such as Enviro Mortar 45.

Surfaces are best prepared by mechanically grinding followed by pressure wash with water.

Enviro Hydrostatic 1 is suitable for use over the following substrates:

- New Concrete
- Fibre Cement Non-Coated Walls—(min. 6mm)
- Renders—(Cured for min. 7 days)
- Compressed Fibre Cement—(15mm)
- Natural Stone including Sandstone

NOTE: Do not apply Enviro Hydrostatic 1 to any concrete that has received concrete curing compounds.

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

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PRIMING

No priming is required for Hydrostatic 1. Surfaces must be pre-wet using a light water mist but should be free of surface water. This assists with the workability of the products and reduces rapid drying of product particularly over porous surfaces.

NOTE: For project specific advice, please consult EnviroSystems. customerservice@envirosystems.com.au

MIXING

One 15kg bag of Enviro Hydrostatic 1 should be mixed with 3.6L - 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 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 (in particular for negative 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 are best 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 junctions and general movement joints. Install by brushing a liberal coat of Enviro Hydrostatic 1 laying the Enviro Joint Band into a 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 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.

NOTE: 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.

For further information regarding application of Enviro Hydrostatic 1 or for project specific advice please consult EnviroSystems.

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APPLICATION RATES

Type	Rate WFT (per coat)	Number of Coats	Finished DFT
General Positive	1.0mm	2	1.5mm
Immerse	1.35mm	2	2mm
Prevent	1.15mm	3	2.5mm

* Maximum WFT per coat is 1.5mm

NOTE: WFT = Wet Film Thickness
DFT = Dry Film Thickness

WFT Gauges are available from EnviroSystems upon request.

RECOATING & OVERCOATING

Enviro Hydrostatic 1 can be re-coated between 1-3 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.

Tiling applications should be undertaken using Enviro GTX or Enviro GTA tile adhesive in accordance with the instructions on the product data sheet.

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.

For tiling over Enviro Hydrostatic 1 in negative applications, or for project specific advice, please consult EnviroSystems.

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COVERAGE

The coverage of Enviro Hydrostatic 1 will depend upon the type of substrate and its condition.

General Positive Side Waterproofing	1.5mm Dry Film Thickness - 1.5 litres/m ² , 8m ² per bag mixed
Immersed and Precautionary Negative Side Waterproofing	2.0mm Dry Film Thickness - 2 litres/m ² , 6m ² per bag mixed
Preventing Ingress of Water under Pressure on the Negative Side	2.5mm Dry Film Thickness - 2.5 litres/ m ² , 4.8m ² per bag mixed

CLEANING

For easy removal of Enviro Hydrostatic 1 from tools and surfaces immediately clean with water before it has cured. Once dried the product will need to be removed by mechanical means.

PACKAGING

Enviro Hydrostatic 1 is supplied in a 15kg bag ready for use. There are 64 x 15kg bags of Enviro Hydrostatic 1 per pallet.

SHELF LIFE

Enviro Hydrostatic 1 can be stored in its original sealed packaging for 12 months from the date of production when stored in a dry cool place.

HEALTH & SAFETY ADVICE

Enviro Hydrostatic 1 is considered a hazardous dust according to Safe Work Australia criteria. Always ensure good ventilation when applying. Wash off splashes of the material with clean water and wear an appropriate dust mask, 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

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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