



Enviro 200P Ultra

APPLICATION METHOD STATEMENT

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Introduction

Enviro 200P Ultra is an ultra-flexible, class III waterproofing membrane specifically designed for internal use under tiles and for a range of water tank applications. Enviro 200P Ultra is formulated on a water-based crosslinked copolymer system that is urethane modified.

This membrane has been independently tested and meets all performance criteria outlined in AS 4858 for internal wet area waterproofing.

The following sections provide comprehensive instructions for the preparation of substrates and the correct installation procedures for Enviro 2000p Ultra.



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 200P Ultra can be applied over the following suitably prepared substrates:</p> <ul style="list-style-type: none"> • Concrete • FC Sheet
Primer Coat (substrate and walls)	<p><u>Enviro Shield</u></p> <ul style="list-style-type: none"> • Primer coat to promote adhesion. • Applied at a rate of 0.32L /m² to a minimum dry film thickness (DFT) of 0.16mm.
Flexible Sealant	<p><u>Enviro Flex FL / FC</u></p> <ul style="list-style-type: none"> • General purpose polyurethane sealant recommended for use under waterproofing membranes. • 12mm x 12mm fillets applied as per AS3740.
Waterproofing Membrane (substrate and walls)	<p><u>Enviro 200P Ultra</u></p> <ul style="list-style-type: none"> • Water based membrane for internal wet areas. • Applied at a rate of 1L/m² per coat. 2 coats are required to achieve a DFT of 1.0mm.
Primer Coat (above screed)	<p><u>Enviro Shield</u></p> <ul style="list-style-type: none"> • Primer coat to promote adhesion. • Applied at a rate of 0.32L /m² to a minimum dry film thickness (DFT) of 0.16mm.

Waterproofing Membrane (above screed)	<u>Enviro 200P Ultra</u> <ul style="list-style-type: none">• Water based membrane for internal wet areas.• Applied at a rate of 1L/m² per coat. 2 coats are required to achieve a DFT of 1.0mm.
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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

- Ensure that the concrete substrate is free from contaminants. Optimum surface preparation includes, mechanical profiling, such as captive shot blast cleaning or vacuum grinding to achieve a concrete surface profile (CSP) of CSP2/CSP3.
- Moisture content < 4.5%.
- Falls in substrate should be as per AS3740 which is 1:100 for outside shower recess and 1:80 for inside shower recess.

PRIMER COAT

Enviro Shield

- Enviro Shield is supplied in pre-weighed packages, of Part A- 10 Litres and Part B- 10 Litres. It is essential that all the hardener (Part B) is added to the entire resin component (Part A) to ensure that the correct mixing proportions are maintained (1 to 1, A: B, by volume).
- Combined components should then be thoroughly mixed using a mechanical stirrer with a paddle attachment for a minimum of 5 minutes.
- Once fully mixed, Enviro Shield should be immediately applied by roller or brush, to the prepared substrate to ensure that all imperfections are filled sufficiently.
- Enviro Shield has a pot life of 40-60 minutes at 25°C and 50% RH, mixed product should not be used after this time.
- Enviro Shield can be over coated after a minimum of 24 hours and a maximum of 72 hours, assuming 25°C and 50% RH. Refer to Enviro Shield TDS for other temperature conditions.

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Mixing

- Enviro 200P Ultra is supplied in pre-packaged 15 litre containers.
- Enviro 200P Ultra should be thoroughly mixed with a mechanical mixer at low speed (less than 200 RPM) prior to application.

Application

- Enviro 200P Ultra is to be applied using brush, roller, or squeegee and is generally applied to the required Dry Film thickness (DFT) in 2 coats.
- Product is to be applied at temperatures no less than 10°C or no more than 85% RH and/or no more than 35°C.
- Ensure that shower areas receive a sufficient coating thickness and are free of all defects such as pinholes.
- Minimum application requirements set forth by the NCC and relevant Australian Standards should be followed when applying Enviro systems products.
- Product is suitable for use over particle board.
- In hot weather, avoid extremes and work in the morning or evening once substrate has cooled. Shade the work area and keep product stored in cool conditions out of direct sunlight.
- In cold weather, keep all products stored out of the cold, especially products not intended to be frozen. Warming materials to around 30°C can help but products may react to the substrate temperature rapidly when applied. Use heated tents around work areas.
- In high humidity and wet weather, do not apply when rain is imminent, check the forecasts. Use tents or protection to cover areas to be worked on. Use fans or driers and ventilation to remove moisture and lower humidity, do not directly blow onto product.

Re-Coating

- Enviro 200P Ultra can be re-coated in 4 hours in some instances and assuming 25°C and 50% RH. Typically, re-coating occurs after 16 hours (on the following day).

Product Application Summary Table

	Product	Dry Film Thickness (min)	Minimum Overcoat	Maximum Overcoat
Primer Coat	Enviro Shield	0.16mm	8 hours	24 hours
Joint Sealant	Enviro Flex FL / FC	N/A	Manufacturers Recommendations	
Membrane	Enviro 200P Ultra	1.mm	3 hours	72 hours

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.

Contact Enviro systems

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