

# PRODUCT DATA SHEET

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# enviro**systems**

## Protective Coatings & Sealants

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# ENVIRO 200P ULTRA

## ULTRA-FLEXIBLE MODIFIED POLYURETHANE WATERPROOFING MEMBRANE



**WATERPROOFING**

### DESCRIPTION

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. It is fast drying and exhibits very good elasticity, excellent adhesion, and outstanding elongation.

### CLASSIFICATION

AS/NZS 4858:2004 CLASS III APPROVED

AS4654.1.2:2012 NON-EXPOSED CLASS III APPROVED

GREEN STAR COMPLIANT

Design and As Built v1.2, Section 13.11

### AREAS OF USE

**SURFACES:** Walls, floors, and areas that will be covered with a wearing surface, such as tiles or other appropriate protective coatings.

**AREAS:** Internal wet areas, bathrooms, kitchens, laundries, fire sprinkler tanks, greywater tanks, stormwater retention tanks.

### FEATURES & BENEFITS

- Fast drying
- Water based, easy clean up
- Very low VOC content
- Excellent vertical hold-up
- Excellent crack bridging ability
- No reinforcing fabric required
- Modified polyurethane eliminates re-emulsification
- Compatible with EnviroSystems tile adhesives: Enviro GTX

### PRODUCT INFORMATION

**Packaging** Available in 15L plastic pails [Boston Grey].

**Shelf Life** Enviro 200 can be stored in its original sealed containers for 12 months. Once opened and resealed for later use, shelf life could vary depending on storage conditions.

**Storage Conditions** Enviro 200P Ultra should be stored in dry conditions, where it is protected from direct sunlight and at a temperature between +4°C and +35°C.

### COVERAGE RATE

Type	Litres /m <sup>2</sup>	m <sup>2</sup> /pail	WFT per Coat	Number of Coats	Finished DFT (all coats)
Internal Wet Area Walls	1.0	15	1.0 mm	1	0.6 mm
Internal Wet Area Floors	1.5	10	0.8 mm	2	1.0 mm
External Floors, Walls, Roofs, Decks	1.5	10	0.8 mm	2	1.0 mm
Masonry Water Tanks (walls & floors)	1.8	8	1.0 mm	2	1.2 mm

NOTE: WFT = Wet Film Thickness. DFT = Dry Film Thickness.  
WFT Gauges are available from EnviroSystems upon request.  
Coverage dependent on weather and substrate conditions.

### CURING TIME

Temperature (at 50%RH)	Min. Recoat - hrs.	Max. Recoat - hrs.	Full cure - days
10°C	>24	Open ended*	7 days
23°C	3-4	Open ended*	7 days
30°C	<3	Open ended*	7 days

\*If exceeding 28 days can be pressure washed prior to recoat. The above chart should be used as a guide only to determine the approximate rate of cure. Other factors can also influence the cure rate such as substrate temperature, enclosed environments and wind conditions.

### PHYSICAL PROPERTIES

Property	Test Method	Test Result
Volatile Organic Compounds	SCAQMD Method 304-91	12 (g/L)
Elongation	AS1145.3	1400%
Tensile Strength	AS1145.3	0.93 MPa
Water Vapor Transmission (WVT)	ASTM E96	2.52 (g/m <sup>2</sup> /24h)
Bond Strength	ASTM C794	119.0 N
Water Absorption	AS3558.1	<2.8%
Bond Strength	ASTM C794	119.09 N
Heat Ageing	AS4858 Table A1	Pass
Cyclic Movement	CSIRO Joint Test	Pass
External Membrane (nonexposed)	AS4654.1:2012	Class III
Internal Wet Area Membrane	AS4858:2004	Class III
Temperature Resistance	AS4654.1 Clause 2.6	No cracking, crazing, or surface defects [35°C]



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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.

## DIRECTIONS FOR USE

### SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from contamination such as dust, laitance, grease, coatings and curing compounds. Remove all sharp edges including screws, nails and concrete/mortar projections. Apply Enviro Flex Pro or Enviro Flex FC or Enviro Flex FL (and allow to cure), to all joints, cracks etc. prior to the application of Enviro 200P Ultra. Enviro 200P Ultra is suitable for use over the following substrates:

- New Concrete - Cured for min. 28 days and under 6% moisture (gravimetric method)
- Fibre Cement Sheets - Walls (min. 6mm)
- Renders and Screeds - Cured for min. 7 days under 6% moisture (gravimetric method)
- Compressed Fibre Cement (min. 15mm)
- Plasterboard walls - Wet area grade only (min. 10mm)
- Plywood (PAA) - Wet area grade only

**NOTE:** Mechanical abrasion of the substrate is recommended for pedestrian traffic applications.

### PRIMING

**NOTE:** Substrate condition and other requirements will dictate primer selection.

New surfaces under 6% moisture (gravimetric method): Apply 1 coat of Enviro Prime WB in accordance with Product Data Sheet to the prepared substrate.

Renders, screeds, damp surfaces under 6% moisture (gravimetric method): Apply 1 coat of Enviro Shield as a primer in accordance with Product Data Sheet to the prepared substrate.

Surfaces with low adhesion: Apply 1 coat of Enviro Shield as a primer in accordance with Product Data Sheet to the prepared substrate.

Concrete block water tanks: Apply 2 coats of Enviro Shield as a primer in accordance with product data sheet to the prepared substrate.

### BOND BREAKING

Apply Enviro Flex Pro or Enviro Flex FC or Enviro Flex FL to form smooth, 12mm flexible cove to all internal corners, penetrations and joints. Allow to cure prior to application of Enviro 200P Ultra. Alternatively, install Enviro Joint Band to wall/floor joints and corners, where greater movement is anticipated, or a premium solution is required.

### MIXING

Enviro 200P Ultra should be thoroughly mixed with a mechanical mixer at low speed (less than 400 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. Please see Coverage Rate table for further details. Minimum application requirements set forth by the NCC and relevant Australian Standards should be followed when applying EnviroSystems products.

Product is suitable for use over particle board.

**NOTE:** 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.

### RECOAT

Please see the Curing Time table on page 1 for the Enviro 200P Ultra recoat windows. Preferably, apply at 90° to the direction of the previous coat. If there is uncertainty about the conditions, allow longer drying time. Flood testing may be carried out after a minimum of 72 hours (curing at 25°C) and subsequently checked by the applicator to confirm membrane has sufficiently cured to perform the test. Care should be taken when walking over newly installed Enviro 200P Ultra to ensure the membrane is not damaged. If damage occurs, consult EnviroSystems for recommended repair methods.

### OVERCOATING

**Direct Tiling:** If adhering directly to Enviro 200P Ultra, ensure the membrane is sufficiently dry. Allow a minimum of 24 hours before tiling (see above).

**Screed / Mortar Bed:** Allow a minimum of 24 hours before screed application. Care should be taken to prevent any damage to the membrane during screed/mortar bed placement. It is the responsibility of the installer to determine the design, strength, thickness etc. of screed/mortar bed. Allow the mortar bed to cure a minimum of 7 days before waterproofing.

**Exposed UV Areas:** For external use where a non-yellowing aesthetic finish is required, it is recommended that a suitable UV topcoat such as Enviro 250 NS be applied. For light pedestrian traffic (maintenance) these UV topcoats can be broadcast with aggregate for a textured slip reducing finish or for a topcoat that does not require broadcasting refer to Enviro 250NS.

### CLEANING

For easy removal of Enviro 200P Ultra from tools and surfaces immediately clean with water before it has time to dry. If it has dried attempt physical removal and/or prolonged soaking in detergent and water. Observe all OH&S and SDS information pertaining to safe usage and handling of solvents. Cured material may only be removed mechanically.

### LIMITATIONS

Product must not be applied in rain or if bad weather is imminent. Do not apply to damp or contaminated surfaces or directly over protective coatings. Product must not be used as an exposed or UV stable coating. Do not allow product to freeze.

### HEALTH & SAFETY ADVICE

Enviro 200P Ultra is non-hazardous according to Safe Work Australia criteria, however, as a precaution, always provide good ventilation when applying. Wash off splashes of material with clean water, wear gloves and eye protection. If irritation is experienced seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

### KEEP OUT OF REACH OF CHILDREN

### WE ARE 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
- Record all relevant SDS

Please do not hesitate to contact us for any questions you may have on **1300 WATERPROOF** (1300 928 377) or via email at:

**customerservice@envirosystems.com.au.**

### 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 of 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 application.

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