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Enviro 200P Ultra

Ultra-Flexible Modified Polyurethane Waterproofing Membrane





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DESCRIPTION

Enviro 200P ULTRA is an ultra flexible, class III waterproofing membrane specifically designed for internal and external use under tiles and for a range of water tank applications. It 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.

FEATURES

- Fast drying
- Water based, easy clean up
- Complies with AS:4858
- Very low VOC content
- Excellent vertical hold-up
- Excellent crack bridging ability
- Single component
- No reinforcing fabric required
- Modified polyurethane eliminates re-emulsification
- Compatible with ceramic tile adhesives; Enviro GTA and Enviro GTX

TYPICAL USES

Enviro 200P Ultra is used for the waterproofing of walls, floors, decks and roof areas that will be covered with a wearing surface, such as tiles or other appropriate protective coatings. Enviro 200P ULTRA can also be used as a tank liner in permanent immersion situations.

- Internal & External Wet Areas
- Balconies & Decks
- Bathrooms, Kitchens, Laundries
- Roof Areas
- Fire Sprinkler Tanks
- Greywater Tanks
- Stormwater Retention Tanks

PHYSICAL PROPERTIES

Elongation at break	≥700%
Recoat Time at 25°C, 50% R.H.	2 – 4 hours
Full Cure at 25°C, 50% RH	3 days
Minimum screed & tiling time at 25°C, 50%RH	24 hours
Minimum application temperature & RH	10°C minimum, maximum 85% RH
Resistance to UV	Good durability under prolonged exposure

SUBSTRATE PREPERATION

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. Fill all holes, cracks and voids with Enviro Flex Pro or Enviro Flex FC joint sealant. In addition, seal penetrations, angles, wall, hob and floor joints. Drainage and falls must be provided for as per the relevant Australian Standard.

Enviro 200P ULTRA is suitable for use over the following substrates:

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

NOTE: Do not apply Enviro 200P ULTRA to any concrete that has received concrete curing compounds.

Some substrate preparations may initially require mechanical grinding in order to provide an adequate surface profile and to promote optimum adhesion for the membrane system.

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

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PRIMING

New Surfaces with moisture content <5%: Apply 1 coat of Enviro Prime WB in accordance with Product Data Sheet to the prepared substrate.

Renders, Screeds, Damp surfaces (MC <15%): 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.

NOTE: For further information on applications that may not require priming or for project specific advice, please consult EnviroSystems.

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BOND BREAKING

Apply Enviro Flex Pro or Enviro Flex FC to form smooth, 12mm angle fillets 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 can be applied using a brush or roller. Apply sufficient coats of Enviro 200P ULTRA to achieve the appropriate minimum Dry Film Thickness (DFT). Please see Application Rates table. Preferably, apply at 90° to the direction of the previous coat. Ensure that shower areas receive a sufficient coating thickness and are free of all defects such as pinholes.

NOTE: Allow each coat to sufficiently dry before proceeding to the next coat. Thicker coats will take longer to dry.

Waterproofing of exposed deck areas may require waterproofing directly beneath tiling and/or above any screed, so as to control efflorescence staining.

For further information regarding application of Enviro 200P Ultra or for project specific advice please consult EnviroSystems.

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APPLICATION RATES

Surface	Rate WFT (per coat)	Number of Coats	Finished DFT
Internal Wet Area Walls	1.0mm	1	0.6mm
Internal Wet Area Floors	0.8mm	2	1.0mm
External Floors, Walls, Roofs & Decks	0.8mm	2	1.0mm
Masonry Water Tanks	1.0mm	2	1.2mm

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

WFT Gauges are available from EnviroSystems upon request.

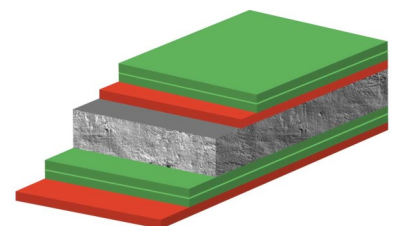
RECOAT & CURING

Enviro 200P ULTRA can be recoated after 2-4 hours depending on conditions of good air flow. Direct tiling and screed application can be carried out after a minimum period of 24 hours, again depending on conditions. 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.

Drying times stated above are based on temperatures of 25°C and 50% R.H. with good airflow. To reduce drying times, it is most important to increase the flow of air, especially in smaller bathrooms and tanks. Waterproof the shower floor area first to maximize the dry time, apply at a higher air temperatures and avoid laying up very thick coats. Note that drying at floor level and in corners is generally slowest.

Typical Double Membrane System

- Membrane – 200P ULTRA
- Primer – Shield / Prime WB
- Screed
- Membrane – 200P ULTRA
- Primer Shield / Prime WB





COVERING OF ENVIRO 200P ULTRA

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

Screed / Mortar Bed: 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 areas where a non-yellowing aesthetic finish is required, it is recommended that a UV resistant top coat such as Enviro Clad be applied

COVERAGE

The coverage of Enviro 200P Ultra will depend upon the type of substrate and its condition. When prepared and primed in accordance with the instructions above, the following average coverage rates should be expected.

Internal Wet Area Walls	0.6mm Dry Film Thickness - 1.0 litres/m ² , 15m ² per pail
Internal Wet Area Floors	1.0mm Dry Film Thickness - 1.5 litres/m ² , 10m ² per pail
Bathrooms (internal walls & floor combined)	Average 1.13 litres/ m ² , 13m ² per pail
External Floors, Walls, Basements, Roofs & Decks	1.0mm Dry Film Thickness - 1.5 litres/m ² , 10m ² per pail
Masonry Water Tanks (walls & floor)	1.2mm Dry Film Thickness - 1.8 litres/m ² , 8m ² per pail.

PACKAGING & COLOURS

Enviro 200P Ultra is supplied in 15 litre plastic pails and is available in two colours, Grey and Green.

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.

SHELF LIFE

Enviro 200P ULTRA can be stored in its original sealed containers for 12 months, when placed in a cool environment above 4°C. Once opened and resealed for later use, the shelf life could vary depending on storage conditions. Always check product quality before using after prolonged periods of storage. If unsure please contact EnviroSystems for advice.

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.

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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