

Enviro 220XP

ULTRA-FLEXIBLE MODIFIED POLYURETHANE WATERPROOFING MEMBRANE

Enviro 220XP is an ultra-flexible, class III waterproofing membrane specifically designed for internal use under tiles and for a range of water tank applications. Enviro 220XP is formulated on a water-based crosslinked copolymer system that is urethane modified.

FEATURES AND 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
- Outstanding elongation

APPLICATIONS SOLUTIONS

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

- Internal wet areas
- Bathrooms
- Kitchens
- Laundries

CLASSIFICATIONS

AS/NZS 4858:2004 Class III Approved

Green Star Compliant – Design and As Built v1.2, Section 13.11

PRODUCT INFORMATION

Packaging: Available in 20L plastic pails.

Colour: Boston Grey.

Shelf life: Enviro 220XP 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: Enviro 220XP should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5°C and +35°C.



WATERPROOFING



AUSTRALIAN MADE

Directions for Use

SUBSTRATE PREPARATION

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. Host concrete must be roughened and aggregate exposed to ensure good bond. Removal of laitance is important to ensuring proper bond. Shot-blasting, scarification, mechanical chipping or high-pressure water blasting may be used to achieve a recommended minimum CSP3 surface finish.

All surfaces must be dry, free of dust, oils, and surface contaminants. This may require steam cleaning or high-pressure water blasting.

Enviro 220XP is suitable for use over the following substrates:

-  New concrete - cured for min. 28 days
under 4.5% moisture (gravimetric method)
-  Fibre cement sheets - walls (min. 6mm)
-  Renders and screeds - cured for min. 7 days
under 4.5% 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 4.5% 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 4.5% moisture (gravimetric method): Apply 1 coat of Enviro Shield as a primer in accordance with Product Data Sheet to the prepared substrate.

BOND BREAKING

Apply Enviro Flex FC or Enviro Flex FL to form a smooth 12mm cove internally or 15mm cove externally to all corners, penetrations and joints. Apply Enviro Cloth Tape Black on the skinned sealant before applying Enviro 220XP. Alternatively, install Enviro Joint Band to wall/floor joints and corners, where greater movement is anticipated, or a premium solution is required.

MIXING

Enviro 220XP should be thoroughly mixed with a mechanical mixer at low speed (less than 200 RPM) prior to application.

APPLICATION

Enviro 220XP 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.

OVERCOATING

Direct tiling: If adhering directly to Enviro 220XP, ensure the membrane is sufficiently dry. Allow a minimum of 24 hours after the last coat and 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.

Product Data

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS
Volatile Organic Compounds (VOCs)	ASTM D3960	40g/L
Elongation	AS1145.3	1400%
Tensile Strength	AS1145.3	0.93MPa
Water Vapor Transmission (WVT)	ASTM E96	2.52(g/m ² /24 hours)
Bond Strength	ASTM C794	119.0N
Water Absorption	AS3558.1	<2.8%
Bond Strength	ASTM C794	119.09N
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)

COVERAGE RATE

TYPE	LITRES/m ² FOR EACH COAT	m ² /PAIL FOR EACH COAT	WFT/COAT	NUMBER OF COATS	FINISHED DFT (ALL COATS)
Internal Wet Area Walls	1.0	20	1.0mm	1	0.6mm
Internal Wet Area Floors	0.75	13.4	0.8mm	2	1.0mm

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

CURING AND RECOATING TIME

TEMPERATURE	MINIMUM RECOATING TIME	MAXIMUM RECOATING TIME	FULL CURE
10°C @ 50% RH	>24 hours	72 hours*	7 days
23°C @ 50% RH	3 - 4 hours	72 hours*	7 days
30°C @ 50% RH	<3 hours	72 hours*	7 days

** If the recoat time of 72 hours has been exceeded, the product must be cleaned and primed with either Enviro Epoxy B-LV or Enviro Shield, please refer to the primer product data sheets for further information.*

CLEANING

For easy removal of Enviro 220XP 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 Safety Data Sheet 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.



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PHONE

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HEALTH & SAFETY ADVICE

Enviro 220XP 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.

KEEP OUT OF REACH OF CHILDREN

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

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.