

Enviro 700X

Low-odour Single-component PU Membrane

DESCRIPTION

Enviro 700X is an Australian-made, single-component, Class III, low-odour, moisture-curing polyurethane elastomer waterproofing system. Once applied, it forms a seamless, durable, and flexible membrane that protects structures from water penetration.

Enviro 700X Series: Enviro 700X; Enviro 700X VG – vertical grade; Enviro 700X SL – self-levelling. Data on this sheet applies to all grades unless stated otherwise.

CLASSIFICATION

AS/NZS 4858:2004 – Internal wet area membrane, Class III

AS 4654.1:2012 – External membrane (non-exposed), Class III

Green Star – Compliant, Design and As Built v1.2, Section 13.1.1

AREAS OF USE

SURFACES: Concrete, block, render, timber, fibre cement sheeting, cross-laminated timber, glass-reinforced concrete, and steel.

AREAS: Wet areas including bathrooms, podiums, basements, walls and floors, retaining walls, plant rooms, and balconies.

FEATURES & BENEFITS

- High-performance system
- Single-component liquid
- Seamless and durable
- Stays flexible at low temperatures.
- Chemically resistant
- Low VOC and low odour
- Suitable over particle board

PRODUCT INFORMATION

Packaging	15L Pails
Colour	Grey
Shelf Life	6 months in original sealed containers in a controlled environment. A skin may form during storage – remove it; performance is not affected. Moisture sensitive – use the full contents once opened.
Storage Conditions	Store in dry conditions, protected from direct sunlight, between 5°C and 35°C.

Compatible Primers	Enviro Prime P2 Enviro Epoxy B Enviro Epoxy B-LV Enviro Prime 789 Enviro Shield
Compatible Sealants	Enviro Flex PU FC Enviro Flex PU FL
Compatible Coatings	Enviro 950 TC
Compatible Accessories	Enviro Joint Band Enviro Wall Sleeve

PHYSICAL PROPERTIES

Property	Test Method	Test Result
VOCs	ASTM D3960	66 g/L
Elongation	AS 1145.3	1350%
Tensile Strength	AS 1145.3	3.5 MPa
Water Vapour Transmission	ASTM E96	7.33 g/m ² /24 hours
Shore A Hardness	AS 1683.15.2	70 ±5
Slip Resistance (Wet Pendulum)	AS 4586:2013	P5 (with 16/30 aggregate)
Heat Ageing	AS 4858 Table A1	Pass
Water Absorption	AS 3558.1	<1.3%
Cyclic Movement	CSIRO joint test	Pass

COVERAGE RATE

Application	Litres/m ²	Coats	Finished DFT
Internal Floors	0.84	2	1.5mm
Internal Walls	0.56	2	1.0mm
External	0.84	2	1.5mm

Litres/m² per coat. Approx. 18m² per 15L pail per coat on floors (26.5 m² on walls). Coverage depends on weather and substrate conditions.

SUBSTRATE PREPARATION

All defective host substrate must be removed prior to application, including cracked or structurally weakened surfaces and chloride-contaminated or



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carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications.

Roughen host concrete with aggregate exposed and laitance removed, to a minimum CSP3 profile, by shot-blasting, scarification, mechanical chipping, or high-pressure water blasting. All surfaces must be dry and free of dust, oils, and contaminants; this may require steam cleaning or high-pressure water blasting.

Enviro 700X is suitable for use over:

- New concrete – cured min. 28 days, under 4.5% moisture (gravimetric method)
- Fibre cement sheets – walls (min. 6mm)
- Renders and screeds – cured 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: Substrate moisture content measured using gravimetric testing, as measured using a Tramex CME 4 Moisture Meter. Mechanical abrasion of the substrate is recommended for pedestrian traffic applications.

Priming: Substrate condition will dictate primer selection. Enviro Prime P2, Enviro Epoxy B, Enviro Epoxy B-LV, Enviro Prime 789 and Enviro Shield are compatible. On damp masonry up to 6% moisture, use Enviro Shield, Enviro Epoxy B or Enviro Epoxy B-LV.

Bond Breaking: Apply Enviro Flex PU FC or Enviro Flex PU FL to form a smooth, flexible cove to all internal corners, penetrations, and joints – at least 12 × 12mm internally and 15 × 15mm externally. Allow the sealant to skin before applying Enviro 700X. Alternatively, install Enviro Joint Band at wall/floor joints and corners where greater movement is expected or a premium solution is required.

APPLICATION

Mixing: Mix thoroughly with a mechanical mixer at low speed (less than 200 rpm) before application.

Application: Apply by brush, roller, or squeegee to the required DFT, generally in 2 coats, at substrate temperatures between 5°C and 35°C. In very low humidity, a light water mist will speed up curing.

In hot weather, avoid extreme temperatures and work in the morning or evening once the substrate has cooled; shade the work area and keep product out of direct sun. In cold weather, keep all products stored out of the cold. In high humidity and wet weather, do not apply when rain is imminent; use tents or protection to cover work areas. Follow the minimum requirements of the NCC and relevant Australian Standards.

Temperature	Min. Overcoat	Max. Overcoat	Full Cure
10°C @ 50% RH	48 hours	72 hours*	7 days
15°C @ 50% RH	24 hours	72 hours*	7 days
25°C @ 50% RH	12 hours	72 hours*	7 days

**If the 72-hour recoat window is exceeded, clean and prime with Enviro Prime P2 or Enviro Shield.*

Direct Tiling: After achieving the required DFT, apply an additional thin coat of Enviro 700X and broadcast with aggregate at 0.5 kg/m² or more to promote adhesion. The optimum tiling window is typically 24–72 hours.

Screed / Mortar Bed: Take care not to damage the membrane during placement. The screed installer is responsible for screed design, strength, and thickness. The optimum placement window is typically 24–72 hours.

Below Ground: Retaining walls, basement walls, and planter boxes – allow to dry for at least 24 hours, then protect before backfilling with corflute and filtered drainage cell (dimple drainage or corflute sheets are not suitable for horizontal applications).

Exposed UV Areas: Where a non-yellowing aesthetic finish is required, topcoat with Enviro 950 TC. For light maintenance traffic, the topcoat can be broadcast with aggregate for a slip-reducing finish.

Maintenance Traffic: For internal areas not exposed to UV, such as plant room floors, Enviro 700X can be broadcast with aggregate to the required slip resistance.

Soft and Hard Landscape: Place filtered drainage cell over the cured membrane before placing ballast, rocks, stone, or other hard landscaping.

For applications or situations not covered above, contact EnviroSystems technical support.

CLEANING

Clean tools and equipment before the product cures with Enviro Thinner No. 1. Cured material can only be removed mechanically.

LIMITATIONS

- Do not apply in rain or if wet weather is imminent.
- Do not apply to damp or contaminated surfaces or directly over protective coatings.
- Not for use as a UV-stable coating – topcoat with Enviro 950 TC where exposed.

HEALTH & SAFETY ADVICE

When using Enviro 700X, always provide adequate ventilation and wear



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appropriate personal protective equipment (PPE). Avoid contact with skin and avoid breathing vapours. Wear protective eyewear. If inhalation effects occur, move to fresh air. If discomfort persists, any breathing difficulties occur or if swallowed, seek medical attention. Refer to the Safety Data Sheet for full safety and handling procedures.

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 or 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 project.

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.

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