

PRODUCT DATA SHEET

DATE 8 JULY 2022



envirosystems
Protective Coatings & Sealants

INDUSTRIAL | COMMERCIAL | RESIDENTIAL

ENVIRO 700X

LOW ODOUR, HIGH PERFORMING,
POLYURETHANE WATERPROOFING MEMBRANE



WATERPROOFING

DESCRIPTION

Enviro 700X is an Australian made, single component, class III, low odour, moisture cured polyurethane elastomer waterproofing system. Enviro 700X, once applied on vertical or horizontal applications, both internally and externally, forms a seamless, durable and flexible membrane, which protects structures from water penetration.

CLASSIFICATION

AS/NZS 4858:2021 CLASS III APPROVED

AS4654.1.2:2012 NON EXPOSED CLASS III APPROVED

GREEN STAR COMPLIANT

Design and As Built v1.2, Section 13.1.1

PRODUCT INFORMATION

Packaging Available in 15L drums [Grey].

Shelf Life Enviro 700X can be stored in its original sealed containers for 6 months in controlled environments. During storage, a skin of Enviro 700X may form which is easily removed. This does not affect the performance of the product. Enviro 700X is sensitive to airborne moisture. It is preferable to use all contents of container after opening.

Storage Conditions Enviro 700X should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between 0°C and +35°C.

COVERAGE RATE

Type	Litres /m ²	m ² /drum	WFT per Coat	Number of Coats	Finished DFT (all coats)
Internal Floor Application	1.67	9.4	0.8mm	2	1.5mm
Internal Wall Application	1.12	12.5	0.6mm	1 to 2	1.0mm
External Application	1.67	9.4	0.8mm	2	1.5mm

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	72	Open ended*	7 days
15°C	24	Open ended*	7 days
25°C	12	Open ended*	7 days

*If exceeding 72hrs can be activated with solvent wipe using thinner No.1.
Variations in temperature and humidity can affect the cure rate of the coating.
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.

AREAS OF USE

SURFACES: Most common substrates include concrete, block, render, timber, fibre cement sheeting, cross laminated timber, glass reinforced concrete and steel.

AREAS: Most common areas of use are wet areas, podiums, basements, walls and floors, retaining walls, plant rooms, bathrooms and balconies.

FEATURES & BENEFITS

- High performance system
- Single component liquid
- Immersion tolerant
- Seamless and durable
- Stays flexible at low temperatures
- Chemically resistant
- Low VOC
- Low odour

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Volatile Organic Compounds	SCAQMD Method 304-91	112 (g/L)
Elongation	AS114.3	1350%
Tensile Strength	AS1145.3	3.5 MPa
Water Vapor Transmission (WVT)	ASTM E96	7.33 (g/m ² /24h)
Shore A Hardness	AS1683.15.2	70 ± 5
Slip Resistance	Wet Pendulum AS4856:2013	P5 [700X with 16/30 Agg]
Heat Ageing	AS4858 Table A1	Pass
Water Absorption	AS3558.1	<1.3%
Cyclic Movement	CSIRO Joint Test	Pass
External Membrane (nonexposed)	AS4654.1:2012	Class III
Internal Wet Area Membrane	AS4858:2004	Class III



1300 WATERPROOF | envirosystems.com.au

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 700X.

Enviro 700X is suitable for use over the following substrates:

- New Concrete - Cured for min. 28 days and under 4.5% moisture (gravimetric method)
- Fibre Cement Sheets - Walls (min. 6mm)
- Renders and Screeds - Cured for min. 7 days and 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 Tramex CME 4 Moisture Meter. Mechanical abrasion of the substrate is recommended for pedestrian traffic applications.

PRIMING

NOTE: substrate condition and other requirements will dictate primer selection. Ensure that the relevant data sheet is read in conjunction with the application.

Enviro Prime SB can be used to prime dry masonry surfaces such as concrete slabs and renders in non-exposed areas such planter boxes, retaining walls and under tiles.

Enviro Prime P2 or Enviro Epoxy B-LV (substrate dependant) is recommended for use when Enviro 700X is used in exposed UV applications or when pedestrian traffic is expected.

Enviro Shield can be used as an alternative primer for damp masonry surfaces in non-exposed and exposed applications. For nonporous surfaces such as metal and PVC, abrade the surface to be treated before priming with Enviro Prime ME and Enviro Prime 789 respectively. Some building materials such as CFC can be supplied with factory applied water resistant coatings. Care should be taken when waterproofing over these products to mitigate risk of incompatibility.

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, and 15mm for external applications. Allow to cure prior to application of Enviro 700X. Alternatively, install Enviro Joint Band to wall/floor joints and corners, where greater movement is anticipated, or a premium solution is required.

MIXING

Enviro 700X should be thoroughly mixed with a mechanical mixer at low speed (less than 400 RPM) prior to application.

APPLICATION

Enviro 700X 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 35°C. 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 extreme temperatures and work in the morning or evening once substrate has cooled. Shade the working area, and keep product stored in cool conditions and out of the direct sun.

In cold weather, keep all products stored out of the cold. 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 very low humidity, a very light mist of water will speed up curing time. 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.

RECOAT

Enviro 700X can be recoated after allowing the product to cure for at least 12 hours depending on weather conditions. Care should be taken when walking over newly installed Enviro 700X to ensure the membrane is not damaged. If damage occurs, consult EnviroSystems for recommended repair methods.

OVERCOATING

Direct Tiling: If tiling directly to Enviro 700X, after achieving the required dry film thickness, it is recommended that an additional thin coat of Enviro 700X be applied and broadcast with aggregate at a rate 0.5kg/m² to promote adhesion. Typically, the optimum tiling window is 24-72hrs. Refer to Enviro GTA and Enviro GTX product data sheets for direct tiling to Enviro 700X.

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 screed / mortar bed installer to determine the design, strength, thickness etc. of screed / mortar bed. Typically, the optimum screed placement window is 24-72hrs.

Below Ground: Areas such as retaining walls, basement walls and planter boxes should be installed as per normal recommendations and allowed to dry for a minimum of 24 hrs. Once dry, it is recommended that the membrane be protected before soil placement with corflute and filtered drainage cell ("dimple" drainage or coreflute sheets are not suitable for horizontal applications). Where possible, it is recommended that drainage pipe and aggregate be placed to allow water to freely drain.

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 800 TC or Enviro 250 NS. When using Enviro 250 NS a coat of Enviro Shield needs to be applied over the Enviro 700X prior to the use of the Enviro 250 NS. 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 250 NS.

Pedestrian Traffic: Refer to the Enviro Trafficable system material for areas where regular pedestrian traffic is expected or Enviro 250 NS.

Maintenance Traffic (Pedestrian): For internal areas that are not exposed to UV such as plant rooms floors, Enviro 700X can be applied and broadcast with aggregate (to required slip resistance) when light maintenance traffic is expected.

Soft & Hard Landscape: When Enviro 700X is installed to areas being covered with hard landscaping materials such as ballast, rocks, stone, etc. it is recommended that filtered drainage cell ("dimple" drainage or coreflute sheets are not suitable for horizontal applications) be placed over the cured Enviro 700X prior to hard landscape placement.

CLEANING

Enviro 700X should be removed from all tools and equipment prior to curing with Enviro Thinners No.1. Observe all OH&S and SDS information pertaining to safe usage and handling of solvents. Cured material can only be removed mechanically.

LIMITATIONS

Product must not be applied in rain or if wet weather is imminent. Do not apply to damp or contaminated surfaces or directly over protective coatings. Product must not be used as a UV stable coating.

HEALTH & SAFETY ADVICE

When using Enviro 700X always provides adequate ventilation and wear appropriate personal protection equipment (PPE) during use. Avoid contact with skin. 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 Safety Data Sheet (SDS) for full details.

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.

Issue No: 4



envirosystems
Protective Coatings & Sealants

1300 WATERPROOF | envirosystems.com.au

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.