



# ENVIRO 900

## RAPID CURING TRAFFICABLE POLYURETHANE COATING



COATINGS

### DESCRIPTION

Enviro 900 is a two-pack quick curing, flexible polyurethane resin based, high build coating, designed to provide an anti-slip, durable, waterproofing surface treatment for areas of extreme traffic and wear, such as roads, and bridge decks. Enviro 900 is thixotropic, suitable for use on ramps, and an integral component of the Enviro Vehicular Trafficable System.

### COMPLIANCE

#### GREEN STAR COMPLIANT

Design and As Built v1.2, Section 13.1.1

### AREAS OF USE

**Surface:** Enviro 900 can be modified to suit different types and levels of traffic and other heavy-duty applications applied over suitably primed concrete.

**Areas:** Car park decks, loading docks, footbridges, walkways, pontoons, bridge decks, balconies.

### FEATURES & BENEFITS

- Fast curing
- Flexible
- Cures at low temperatures
- Quick return to service

### PRODUCT INFORMATION

<b>Packaging</b>	Available in 10 litre kit [Grey]. Part A: 7.2L, Part B: 2.8L.
<b>Shelf Life</b>	Enviro 900 can be stored in its original sealed containers for 12 months. 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.
<b>Storage Conditions</b>	Enviro 900 should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +0 °C and +30 °C.

### COVERAGE RATE

Type	Litres /m <sup>2</sup>	m <sup>2</sup> /kit	WFT per Coat	Number of Coats	Finished DFT (all coats)
<b>External Applications</b>	0.59	6	1.5-3mm**	1	1.5-3mm**

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

\*\* 1.5-3.0mm (subject to aggregate loading)

### PHYSICAL PROPERTIES

Property	Test Method	Test Result
Volatile Organic Compounds	SCAQMD Method 304-91	10 grams/litre
Pot Life	-	15 minutes
Tensile Strength	AS1145.3	10 MPa
Elongation at break	AS1145.3	50%
Finish	-	Semi-Gloss

### CURING TIME

Temperature (at 50%RH)	Handle- hrs	Min. Overcoat- hrs.	Max. Overcoat- hrs.	Full cure- days
10°C	24	16	7 days	7 days
15°C	16	8	7 days	7 days
25°C	12	4	7 days	7 days

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.



## DIRECTIONS FOR USE

### SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from contamination such as dust, laitance, grease, coatings and curing compounds. Grit blast, scarify or mechanically abrade substrate to remove laitance, loose material and surface contaminants. It is essential that the surface profile should resemble coarse sandpaper. 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 900. Enviro 900 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 under 4.5% moisture (gravimetric method)
- Compressed Fibre Cement (min. 15mm)
- Enviro HP1200 – (contact EnviroSystems for further information)

Moisture content determined using gravimetric testing. As measured using Tramex CME 4 Moisture Meter.

### PRIMING

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

**Enviro Vehicular Trafficable System:** Apply directly over existing Enviro membrane systems such as Enviro HP1200 (refer to technical dept.).

**Bare Substrate:** Apply Enviro Prime P2(sand seeded) to bare substrate prior to application of Enviro 900.

### MIXING

Once fully mixed, Enviro 900 should be immediately applied by squeegee, roller or brush to the prepared substrate. It should then be back rolled, with a medium nap roller to fill voids in the substrate. Extremely porous or damp substrates may require a two-coat primer application in order to fully seal the surface and this should be determined by site trials. Broadcast selected aggregate onto the Enviro 900 to achieve extra mechanical adhesion for topcoats. If the surface is extremely rough, Enviro 900 should be applied by roller. The consumption will increase, and care must be taken to remove 'puddles' of primer before sanding. Extra care must be taken to ensure all substrates are dry. When priming, it is advised to broadcast aggregate/extender into the "wet" primer to enhance holdup of the applied topping.

### APPLICATION

Enviro 900 can be applied by notched squeegee/trowel or leveling rake to an even finish. Aggregate should be uniformly broadcasted to the wet Enviro 900 within 10 minutes. Texture will vary depending on type and volume of aggregate used. Product should be applied at no less than 5°C or no more than 35°C.

**NOTE:** Allow each coat to sufficiently dry before proceeding to the next coat. Thicker coat will take longer to dry. Please see Coverage rate section for further details. Minimum application requirements set forth by the NCC and relevant Australian Standards should be followed when applying EnviroSystems products. General Maintenance Procedures and a regular inspection and maintenance plan must be adopted from the date of commissioning to identify and rectify localised point damage.

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.

### OVERCOAT

Please see Curing Time table on page 1 for further information. Sandseeded Enviro 900 can be overcoated within 6-72 hours depending on temperature conditions. If there is uncertainty about the conditions, allow longer drying time. Enviro 900 is an integral part of the Enviro Trafficable System and is recommended to be overcoated with Enviro 800TC for maximum protection. See Enviro 800 TC Product Data Sheet for further details.

### 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. Moisture in concrete must be less than 6%. Product must not be used as an exposed or UV stable coating. Do not allow product to freeze.

### CLEANING

For easy removal of Enviro 900 from tools and surfaces immediately clean with Enviro Thinner No. 1 before it has time to dry. Observe all OH&S and SDS information pertaining to safe usage and handling of solvents.

### HEALTH & SAFETY ADVICE

When using Enviro 900 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, remove to fresh air. If discomfort persists, any breathing difficulties occur or if swallowed, seek medical attention. Refer to Safety Data Sheet 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

