

Enviro 900

RAPID CURING TRAFFICABLE POLYURETHANE COATING

Enviro 900 is a two-pack rapid curing, flexible polyurethane, high build coating, designed to provide an anti-slip and durable surface for areas of extreme traffic and wear. Enviro 900 is thixotropic and suitable for use on ramps, and an integral component of the Enviro Vehicular Trafficable System.

FEATURES AND BENEFITS

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

APPLICATION SOLUTIONS

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

- ⦿ Car park decks
- ⦿ Loading docks
- ⦿ Footbridges
- ⦿ Walkways
- ⦿ Pontoons
- ⦿ Bridge decks
- ⦿ Balconies

CLASSIFICATIONS

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

PRODUCT INFORMATION

Packaging: Available in 10L kit. Part A: 7.2L, Part B: 2.8L.

Colour: Available in Grey.

Shelf life: 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.

Storage: Enviro 900 should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +0°C and +30°C.



COATINGS



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 good bond. Shot-blasting, scarification, mechanical chipping or high-pressure water blasting may be used to achieve a recommended minimum CSP3 surface finish. Substrate must be dry, free of oil or loose particles like laitance or curing compounds.

Apply 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:

- ④ New concrete - cured for min. 28 days
under 4.5% moisture (gravimetric method)
- ④ Fibre cement sheets - walls (min. 6mm)
- ④ Renders and screeds - cured for min. 7 days
under 4.5% moisture (gravimetric method)
- ④ Compressed fibre cement (min. 15mm)
- ④ Enviro HP1200 (contact Enviro systems for further information)

NOTE: Substrate moisture content measured 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 to bare substrate prior to application of Enviro 900.

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 after its application. Texture will vary depending on type and volume of aggregate used. Product should be applied at a substrate temperature of no less than 5°C or no more than 35°C.

For a wear coat application with sand seeded to refusal, allow 24 hours of cure time. Remove all excess sand prior to the application of 950TC.

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 Enviro systems 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.

OVERCOATING

Please see Curing Time table below 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 must be overcoated with Enviro 950 TC for maximum protection. See Enviro 950 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 4.5%. 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.

Product Data

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS
Volatile Organic Compounds (VOCs)	ASTM D3930	1g/L
Pot Life		15 minutes
Tensile Strength	AS1145.3	10MPa
Elongation at Break	AS1145.3	50%
Finish		Semi-gloss

COVERAGE RATE

TYPE	LITRES/m ²	m ² /KIT	WFT/COAT	NUMBER OF COATS	FINISHED DFT (ALL COATS)
External Applications	0.5	20	0.5mm	1	0.5mm

NOTE: WFT = Wet Film Thickness. DFT = Dry Film Thickness. WFT Gauges are available from Enviro systems upon request.

CURING TIME

TEMPERATURE	LIGHT FOOT TRAFFIC	MINIMUM	MAXIMUM	FULL CURE
10°C @ 50% RH	24 hours	16 hours	96 hours*	7 days
15°C @ 50% RH	16 hours	8 hours	72 hours*	7 days
25°C @ 50% RH	12 hours	4 hours	72 hours*	7 days

* If the recoat time has been exceeded, the product must be cleaned and primed with Enviro Prime P2. Please refer to the product data sheets for further information.



Contact Enviro systems

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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.

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 Enviro systems either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Enviro systems are responsible for carrying out procedures appropriate to a specific application.

NOTE: All products manufactured by Enviro systems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.