

Enviro 900 IC

Rapid-curing Trafficable Polyurethane Coating

DESCRIPTION

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

CLASSIFICATION

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

AREAS OF USE

SURFACES: Suitably primed concrete. Can be modified to suit different types and levels of traffic and other heavy-duty applications.

AREAS: Car park decks, loading docks, footbridges, walkways, pontoons, bridge decks, and balconies.

FEATURES & BENEFITS

- Fast curing
- Cures at low temperatures
- Quick return to service
- Thixotropic – suitable for ramps
- Anti-slip, hard-wearing finish when aggregate seeded.

PRODUCT INFORMATION

Packaging	10L Kit – Part A 7.2L / Part B 2.8L
Mix Ratio	2.2 : 1 by Weight; 2.57 : 1 by Volume (A : B)
Colour	Grey
Shelf Life	12 months in original sealed container
Storage Conditions	Store in dry conditions, protected from direct sunlight, between 0°C and 35°C.
Compatible Primers	Enviro Prime P2
Compatible Membranes	Enviro HP1200 Enviro 1000X
Compatible Sealants	Enviro Flex PU FC Enviro Flex PU FL
Compatible Coatings	Enviro 950 TC

PHYSICAL PROPERTIES

Property	Test Method	Test Result
VOCs	ASTM D3930	1 g/L
Pot Life	–	15 minutes
Tensile Strength	AS 1145.3	10 MPa
Elongation at Break	AS 1145.3	50%
Finish	–	Semi-gloss

COVERAGE RATE

Application	Litres/m ²	Coats	Finished DFT
External Applications	0.5	1	0.5mm

Approx. 20m² per kit; WFT per coat 0.5mm. WFT gauges are available from Enviro systems on request.

SUBSTRATE PREPARATION

All defective host substrate must be removed prior to application, including cracked or structurally weakened surfaces and chloride-contaminated or carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications.

Host concrete must be roughened with aggregate exposed, and laitance removed to a minimum CSP3 profile. The substrate must be dry and free of oil, laitance, and curing compounds. Apply Enviro Flex PU FC or Enviro Flex PU FL (and allow to cure) to all joints and cracks prior to application.

Enviro 900 IC is suitable for use over:

- 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)
- Enviro HP1200 (contact Enviro systems)

NOTE: Substrate moisture content measured using gravimetric testing, as measured using a Tramex CME 4 Moisture Meter.

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

Priming – Bare Substrate: Apply Enviro Prime P2 prior to application.



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APPLICATION

Mixing: Enviro 900 IC has a mix ratio of 2.2 : 1 by Weight and 2.57 : 1 by Volume (A : B). Mix Part A and Part B separately first. The kit is supplied in pre-weighed packs, so always add all of Part B (hardener) to the entire Part A (resin). Mix thoroughly with a mechanical mixer at low speed (less than 400 rpm) for at least 30 seconds before application.

Application: Apply Enviro 900 IC by notched squeegee, trowel, or levelling rake to an even finish. Broadcast aggregate uniformly into the wet coating within 10 minutes of application; texture will vary with aggregate type and volume. Apply at a substrate temperature between 5°C and 35°C.

For a wear coat seeded to refusal, allow 24 hours cure and remove all excess sand before applying Enviro 950 TC.

Overcoating: Sand-seeded Enviro 900 IC can be overcoated within 6–72 hours depending on temperature. Enviro 900 IC must be overcoated with Enviro 950 TC for maximum protection.

Temperature	Light Foot Traffic	Min. Recoat	Max. Recoat	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 is exceeded, clean and prime with Enviro Prime P2.*

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 stored out of direct sunlight. 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.

Minimum application requirements set forth by the NCC, and relevant Australian Standards should be followed. A regular inspection and maintenance plan must be adopted from the date of commissioning to identify and rectify localised point damage.

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

CLEANING

Clean tools and surfaces immediately with Enviro Thinner No. 1 before the product dries. Observe all safety information and the SDS relating to the safe use and handling of solvents.

LIMITATIONS

- Do not apply 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%.
- Not for use as an exposed or UV-stable coating.
- Do not allow the product to freeze.

HEALTH & SAFETY ADVICE

When using Enviro 900 IC, always provide adequate ventilation and wear appropriate personal protective equipment (PPE). Avoid contact with skin and 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 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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CONTACT ENVIROSYSTEMS

General Enquiries

info@envirosystems.com.au | 1300 WATERPROOF (1300 928 377)

New South Wales – Head Office

Ground Floor, 295 Princes Hwy, St Peters NSW 2044 |
nswsales@envirosystems.com.au

Queensland

Unit 3, 28 Burnside Rd, Yatala QLD 4207 | qldsales@envirosystems.com.au

Victoria

49 Wood St, Thomastown VIC 3074 | vicsales@envirosystems.com.au

Western Australia

78 Discovery Dr, Bibra Lake WA 6163 | wasales@envirosystems.com.au



COATINGS

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