



ENVIRO 250 NS



NON-YELLOWING 2-COAT EXTERIOR TRAFFICABLE COATING

WATERPROOFING

DESCRIPTION

Enviro 250 NS is a water-based, protective, UV resistant, non-slip and wear resistant coating designed for external use formulated on a water-based silane crosslinked copolymer system. As a topcoat, it can provide external and internal protection of Enviro 700X, 200P Ultra and 500 EXT by improving the wear and UV resistance. It can also be applied directly as a pedestrian trafficable non-slip coating to primed concrete and other surfaces. It dries quickly to form a tough flexible film that has good adhesion properties and is an integral part of the Enviro Light Pedestrian Trafficable System.

COMPLIANCE

GREEN STAR COMPLIANT

Design and As Built v1.2, Section 13.1.1

PRODUCT INFORMATION

Packaging	Available in 15L pails [Grey].
Shelf Life	Enviro 250 NS 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 Conditions	Enviro 250 NS should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +30 °C.

COVERAGE RATE

Type	Litres /m ²	m ² /pail	WFT per Coat	Number of Coats	Finished DFT (all coats)
External Applications	1.2	12.5	0.6mm	2	0.6 mm

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	>24	Open ended*	7 days
23°C	3-4	Open ended*	7 days
30°C	<3	Open ended*	7 days

*If exceeding 28 days can be pressure washed prior to recoat.
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

SURFACE: Enviro 250 NS can be used directly over suitably primed concrete, masonry and timber as a non-slip external foot trafficable coating.

AREAS: Podiums, balconies, decks, plant and mechanical room floors, ramps, steps, pathways, patios, over aged bitumen-based membranes.

FEATURES & BENEFITS

- UV resistant
- Abrasion resistant to pedestrian traffic
- Excellent non-slip properties
- Non-slip aggregate is included
- Protective waterproof topcoat
- Fast drying
- Water-based, low odour
- Simple single component application, easily recoated and maintained
- Easy clean up

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Volatile Organic Compounds	SCAQMD Method 304-91	77 grams/litre
Volume Solids	Internal	52%
Tensile Strength	AS1145.3	2.2 MPa
Elongation	AS1145.3	140%
Shore A Hardness	AS1683.15.2	80 ± 5
Slip Resistance	Wet Pendulum AS4856:2013	P5
Taser Abrasion	ASTM D4060	1000 cycles Pass



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. For horizontal surfaces, fill any depressions which allow water to pond and accumulate. Ensure there is good drainage. Apply Enviro Flex Pro or Enviro Flex FC (and allow to cure), to all joints, cracks etc. prior to the application of Enviro 250 NS. Mechanical abrasion of the substrate is recommended for pedestrian traffic applications.

Enviro 250 NS is suitable for use over the following substrates:

- New Concrete - Cured for min. 28 days and under 6% moisture (gravimetric method)
- Fibre Cement Sheets - Walls (min. 6mm)
- Renders and Screeds - Cured for min. 7 days under 6% moisture (gravimetric method)
- Compressed Fibre Cement (min. 15mm)
- Plasterboard walls - Wet area grade only (min. 10mm)
- Plywood (PAA) - Wet area grade only
- Enviro 700X – (contact EnviroSystems for further information)
- Enviro 200P Ultra (contact EnviroSystems for further information)
- Enviro 500 EXT (contact EnviroSystems 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. Ensure that the relevant data sheet is read in conjunction with the application.

Coating over Concrete:

- Apply Enviro Shield to preferably dry concrete that has cured for a minimum of 28 days (See Enviro Shield Data sheet for application instructions). Allow the primer to cure for 24 hours. Enviro Shield must have at least 160 microns DFT continuous film with no pin hole before Enviro 250 NS is overcoated.
- Enviro Prime SB can be used to prime where there is good surface drainage and no substrate moisture issues, no waterproofing required or where the concrete surface requires binding. Refer to PDS.

Coating over Enviro 200P Ultra or 500 Ultra EXT membrane:

- Allow the membranes to cure a minimum of 24 hours before top coating with Enviro 250 NS. This system is to be used only where expected foot traffic is rare i.e. for building maintenance purposes.

Coating over Enviro 700X

- Ensure the surface is clean, free of dust and grime and dry.
- Prime Enviro 700X with Enviro Shield.
- Allow to cure for 7 days before allowing foot traffic.
- Remember to read the Enviro 700X Data sheet about installation.
- Some discolouration can occur over time. If discolouration is unacceptable, topcoat Enviro 250 NS with a very thin single coat of Prime SB. Do not apply excess Prime SB.

Coating over mineral bitumen membrane:

- For aged membrane contact EnviroSystems for a job specific recommendation. For new membrane, prime with Enviro Shield.

MIXING

Enviro 250 NS should be thoroughly mixed with a mechanical mixer at low speed (less than 400 RPM) prior to application.

APPLICATION

250 NS can be applied using a roller (6mm nap recommended). Do not apply as one heavy coat. Preferably, apply at 90° to the direction of the previous coat. Product is to be applied at temperatures no less than 10°C or no more than 85% RH and/or no more than 35°C.

Ensure that all areas receive a sufficient coating thickness and are free of all defects such as pinholes. Allow each coat to sufficiently dry before proceeding to the next coat. Thicker coats will take longer to dry. 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. 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.

NOTE: In hot weather, avoid extreme temperatures 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.

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. Do not allow product to freeze.

RECOAT

Enviro 250 NS can be recoated any time after 3-4 hours typically in conditions of 25°C and 50% R.H. with good airflow. In cooler conditions allow a longer drying time. If re-applying after a prolonged period, ensure the surface is clean by light pressure washing with detergent and water and then rinsing thoroughly and prime with a thin coat of Enviro Prime SB or Shield. Pay attention to cleaning areas where water ponding, dirt, mould, or algae has accumulated.

OVERCOAT

In situations where extreme resistance to dirt pickup or water ponding is required, Enviro 250 NS can be top coated with a very thin single coat of Enviro Prime SB or Enviro Shield. This will also boost the gloss of the Enviro 250 NS. Only apply to thoroughly dry Enviro 250 NS. Do not apply excess Enviro Prime SB.

CLEANING

For easy removal of Enviro 250 NS from tools and surfaces, clean immediately with water before it has time to dry. Observe all OH&S and SDS information pertaining to safe usage and handling of solvents.

HEALTH & SAFETY ADVICE

Enviro 250 NS is non-hazardous according to Safe Work Australia criteria, however, as a precaution, always provide good ventilation when applying. Wash off splashes of material with clean water, wear gloves and eye protection. If irritation is experienced seek medical advice. Refer to the Safety Data Sheet (SDS) for full safety and handling procedures.

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.

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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.