

# Enviro 250 NS

## Non-Slip Exterior Trafficable Membrane



### DESCRIPTION

Enviro 250 NS is a water-based, waterproof protective, UV resistant, non-slip and wear resistant coating designed for external use. As a top coat, it can provide external and internal protection of Enviro 700X, 200P Ultra and 200P 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 to EnviroSystems recommended products. It is easily recoated with minimal surface preparation. Enviro 250 NS is formulated on a water-based silane crosslinked copolymer system.

### FEATURES

- UV resistant, suitable for exposed applications
- Abrasion resistant to pedestrian traffic
- Excellent non-slip properties
- Non-slip aggregate is included, no need to broadcast
- Protective waterproof topcoat
- Fast drying
- Water-based, easy clean up, low odour
- Simple single component application, easily re-coated and maintained.
- Australian Made and Owned

### TYPICAL USES

Enviro 250 NS can be used as a UV protective wear coating suitable for pedestrian traffic, over EnviroSystems recommended products, waterproofed roof areas, floors, stairs and decks. It can also be used directly over suitably primed concrete, masonry and timber as a non-slip external foot trafficable coating.

- For areas experiencing pedestrian traffic on:
  - Podiums
  - Balconies
  - Decks
  - Plant and mechanical room floors
  - Ramps
  - Steps
  - Pathways
  - Patios
- As a UV and wear protective coating over Enviro 700X, 200P & 200P EXT.
- As a slip resistant coating on pathways and steps
- As a protective coating over aged bitumen- based membranes

### PHYSICAL PROPERTIES

Specific Gravity	1.34
Elongation	140%
Tensile strength	2.2 MPa
% Solids Volume	52 %
Volatile Organic Content (VOC)	77 g/L
Recoat Time	3-4 hours at 25°C, 50% R.H.
Foot Trafficable Cure Time	3 days minimum at 25°C, 50% R.H. (7 days for 700 PUR)
Recommended Substrate Temperature	10°C to 35°C, maximum 85% R.H.
Service temperature	0–70°C
Resistance to UV	Excellent
Slip Resistance	Class P4, Wet Pendulum
Shore A Hardness	80±5
Taber Abrasion Wear Index	107, CS-17/1000 cycles/1kg, ASTM D4060





## SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from contamination such as dust, laitance, grime, 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. Mechanical abrasion of the concrete substrate is recommended for trafficable applications.

For further information on substrate preparation or for project specific advice, please consult EnviroSystems.

[customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)

## PRIMING

### Coating over Concrete:

- Apply Enviro Shield to preferably dry concrete that has cured for a minimum of 28 days (See Enviro Shield Technical Datasheet 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 Primer 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 Ultra EXT membrane:

- Allow the membranes to cure a minimum of 24 hours before top coating with Enviro 250 NS, Note; 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 & grime and dry
- Enviro 250 NS must be applied no longer than 36 hours after applying Enviro700X. If the 36hrs window has elapsed prime Enviro 700X with either Enviro Shield or a fresh coat of 700 PUR.
- Allow to cure for 7 days before allowing foot traffic.
- Helpful advice - if coating a small area apply final coat of 700 in the afternoon to ensure you are within the 24hr overcoating window. Remember to read 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. mineral surface.
- For new membrane, no priming is required

**NOTE:** For further information or clarification regarding priming requirements or for project specific advice, please consult EnviroSystems.

[customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)

## MIXING

Before use mix Enviro 250 NS thoroughly mixed with a mechanical mixer at low speed (less than 400 RPM) prior to application. Do not mix in air.

## APPLICATION

In exposed areas, do not apply if rain is expected within 6 hours. Enviro 250 NS can be applied using a roller (6mm nap recommended). Apply 2 coats of Enviro 250 NS (each coat at a wet film thickness of 0.6mm), to achieve a 0.6mm Dry Film Thickness (DFT). Do not apply as one heavy coat. Preferably, apply at 90° to the direction of the previous coat. 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.

For further information regarding application of Enviro 250 NS including overcoat windows of Enviro products or for project specific advice please consult EnviroSystems.

[customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)

## 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.

Drying times will vary depending on subsequent rain exposure, humidity, air flow, surface temperature and porosity of substrates Full cure allowing foot traffic is typically 3 days (7 days for 700 PUR) after final application at 25°C and 50% R.H.

If re-applying after a prolonged period, ensure the surface is clean by light pressure washing with detergent & water and then rinsing thoroughly and prime with a thin coat of Prime SB. Pay attention to cleaning areas where water ponding, dirt, mould or algae has accumulated. Seek technical advice if necessary.

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 Prime SB. This will also boost the gloss of the Enviro 250 NS. Only apply to thoroughly dry Enviro 250 NS. Do not apply excess Prime SB.

## COVERAGE

The coverage of Enviro 250 NS will depend upon the type of substrate profile and its condition. When prepared and primed in accordance with the instructions above, the following average coverage rates should be approximately 12.5m<sup>2</sup> per 15L pail (two coat system). Apply 2 coats of Enviro 250 NS (each coat at a wet film thickness of 0.6mm), to achieve a 0.6mm Dry Film Thickness (DFT).

- 0.6mm Dry Film Thickness (total 2 coats)



## LIMITATIONS

- Do not use as a replacement for a waterproofing membrane or as an under-tile membrane.
- Do not use in areas subject to negative hydrostatic pressure or rising damp
- Not recommended for use on floors in food preparation areas, including BBQs.
- Do not apply Enviro 250 NS over bond broke areas on floors.

## PACKAGING & COLOURS

Enviro 250 NS is supplied in 15 litre plastic pails and is available in Grey. For other colours contact EnviroSystems.

## CLEANING

For easy removal of Enviro 250 NS from tools and surfaces immediately clean with water before it has time to dry. If it has dried, attempt physical removal by mechanical means.

Cleaning of the finished coating can be done once Enviro 250 NS has been fully cured using a water and detergent. Rinse thoroughly and a stiff bristle broom. Visual inspections of the coating should be conducted every 6 months.

## SHELF LIFE

Enviro 250 NS can be stored in its original sealed containers for 12 months, when placed in a cool environment above 4°C and below 35°C. 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. If unsure, please contact EnviroSystems for advice.

## 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 for full safety and handling procedures.

**NOTE:** Safety Data Sheets are available upon request by emailing [customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)

## We're 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

Please do not hesitate to contact us for any questions you may have.

EnviroSystems Technologies Pty Ltd

**Address** 295 Princes Highway, St Peters NSW 2044  
Sydney, Australia  
**Phone** +61 2 8595 8699  
**Fax** +61 2 8595 8660  
**Email** [customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)  
**Web** [www.envirosystems.com.au](http://www.envirosystems.com.au)

**ISSUE** 2

**DATE** December 2018



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