

Enviro 250 NS

EXTERIOR TRAFFICABLE COATING

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 protection of Enviro 200P Ultra and Enviro 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.

FEATURES AND BENEFITS

- ④ UV resistant
- ④ Abrasion resistant to pedestrian traffic
- ④ Excellent non-slip properties
- ④ Non-slip aggregate is included
- ④ Protective topcoat
- ④ Fast drying
- ④ Water-based, low odour
- ④ Simple single component application
- ④ Easily recoated and maintained
- ④ Easy clean up

APPLICATION SOLUTIONS

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

- ④ Podiums
- ④ Balconies
- ④ Decks
- ④ Plant and mechanical room floors
- ④ Ramps
- ④ Steps
- ④ Pathways
- ④ Patios

CLASSIFICATIONS

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

PRODUCT INFORMATION

Packaging: Available in 15L pails.

Colour: Available in 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: 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.



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.

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:

- 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 Plasterboard walls - wet area grade only (min. 10mm)
- ④ Enviro 200P Ultra
- ④ Enviro 500 EXT

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 applied on top of Enviro Shield. 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.

MIXING

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

APPLICATION

Enviro 250 NS can be applied with a roller, preferably one with a 6mm nap. Do not apply as one heavy coat. Preferably, apply at 90° to the direction of the previous coat. Product is to be applied at air temperature 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 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.

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.

OVERCOATING

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 Shield. Pay attention to cleaning areas where water ponding, dirt, mould, or algae has accumulated.

Product Data

PHYSICAL PROPERTIES

| PROPERTY | TEST METHOD | RESULTS |
|-----------------------------------|--------------------------|------------------|
| Volatile Organic Compounds (VOCs) | ASTM D3930 | 41g/L |
| Volume Solids | Internal | 52% |
| Tensile Strength | AS1145.3 | 2.2MPa |
| 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 |

COVERAGE RATE

| TYPE | LITRES/m ² | m ² /PAIL | WFT/COAT | NUMBER OF COATS | FINISHED DFT (ALL COATS) |
|-----------------------|-----------------------|----------------------|----------|-----------------|--------------------------|
| External Applications | 1.2 | 12.5 | 0.6mm | 2 | 0.6mm |

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

CURING TIME

| TEMPERATURE | MINIMUM RECOAT | MAXIMUM RECOAT | FULL CURE |
|---------------|----------------|----------------|-----------|
| 10°C @ 50% RH | >24 hours | 48 hours* | 7 days |
| 25°C @ 50% RH | 3 - 4 hours | 48 hours* | 7 days |
| 30°C @ 50% RH | <3 hours | 48 hours* | 7 days |

* If the recoat time of 48 hours has been exceeded, the product must be cleaned and primed Enviro Shield. Please refer to the product data sheets for further information.

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 Safety Data Sheet information pertaining to safe usage and handling of solvents.

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.



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PHONE

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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.

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

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.