

Enviro Prime P2

FAST CURE POLYURETHANE PRIMER

Enviro Prime P2 is a solvent free, two component fast cure polyurethane primer, which provides a strong adhesive bond to construction materials.

FEATURES AND BENEFITS

- 🌀 Green Star compliant
- 🌀 Bonds to concrete, mineral substrates and most metal surfaces
- 🌀 Excellent bond to a wide variety of substrates
- 🌀 Solvent free

COMPATIBLE PRODUCTS

Enviro Prime P2 is suitable for use with the following range of Enviro systems products:

- 🌀 Enviro HP1200
- 🌀 Enviro 700X
- 🌀 Enviro 1600
- 🌀 Enviro HP 1200AC
- 🌀 Enviro HP 1200 PW

APPLICATION SOLUTIONS

Surface: Most common substrates include:

- 🌀 Concrete
- 🌀 Block
- 🌀 Render
- 🌀 Timber
- 🌀 Fibre cement sheeting
- 🌀 Cross laminated timber
- 🌀 Glass reinforced concrete
- 🌀 Steel

Areas:

- 🌀 Wet areas
- 🌀 Podiums
- 🌀 Green roofs
- 🌀 Roof tops
- 🌀 Car parks
- 🌀 Stadiums
- 🌀 Balconies
- 🌀 Planter boxes
- 🌀 Retaining walls
- 🌀 Cut and covered tunnels

PRODUCT INFORMATION

Packaging: Available in 10L kits (Red). Part A: 7.2L, Part B: 2.8L.

Shelf life: Enviro Prime P2 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 the product quality before using after prolonged periods of storage.

Storage conditions: Enviro Prime P2 should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between 0°C and +35°C.



PRIMERS



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.

All surfaces must be dry, free of dust, oils, and surface contaminants. This may require steam cleaning or high-pressure water blasting.

NOTE: Metal surfaces may require an abrasive blast to Australian Standard 1627.4:2005. New Concrete - Cured for min. 28 days and under 4.5% moisture (gravimetric method). Renders and Screeds - Cured for min. 7 days under 4.5% moisture (gravimetric method). Moisture content determined using gravimetric testing. As measured using Tramex CME 4 Moisture Meter.

MIXING

Enviro Prime P2 has a mix ratio of 2.2:1 by weight and 2.57:1 by volume (A:B). It is critical to mix Part A and Part B separately. It is supplied in pre-weighed packages, and it is essential that all of the hardener (Part B) is added to the entire resin component (Part A). Enviro Prime P2 should be thoroughly mixed with a mechanical mixer at low speed (less than 400 RPM) for a minimum of thirty seconds prior to application.

APPLICATION

Once fully mixed, Enviro Prime P2 should be immediately applied by squeegee, roller or brush to the prepared substrate. It should then be back rolled, with a medium nap roller to fill voids in the substrate. Extremely porous or damp substrates may require 2 coats in order to fully seal the surface and this should be determined by site trials. Broadcast selected aggregate onto the Enviro Prime P2 to achieve extra mechanical adhesion for topcoats. If the surface is extremely rough, Enviro Prime P2 should be applied by roller. The consumption will increase, and care must be taken to remove 'puddles' of primer before sanding. Extra care must be taken to ensure all substrates are dry.

When priming, it is advised to broadcast aggregate/extender into the "wet" primer to enhance holdup of the applied topping.

NOTE: Allow each coat to sufficiently dry before proceeding to the next coat. A thicker coat will take longer to dry. Please see Coverage Rate table for details. Product should be applied at a substrate temperature no less than 5°C or no more than 35°C. 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 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 TIMES

Enviro Prime P2 can be overcoated within 4 - 72 hours depending on temperature conditions. Preferably, apply at 90° to the direction of the previous coat. If there is uncertainty about the conditions, allow longer drying time. It is important to overcoat the primer on the same day to avoid surface contamination.

If the stated overcoating window has been exceeded, clean the primer surface thoroughly and allow to dry. Re-activate the surface by wiping with Enviro Thinners No.1, then apply a light coat of Enviro Shield prior to the next membrane. A small site adhesion test is recommended before full application.

CLEANING

Enviro Prime P2 should be removed from all tools and equipment, prior to hardening with Enviro Thinners No.1 or Thinners No. 7. Cured material can only be mechanically removed. 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. 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.

Product Data

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS
Volatile Organic Compounds (VOCs)	ASTM D3960	1g/L
Tensile Strength	AS1145.3	10MPa
Elongation	AS1145.3	50%
Pot Life	AS1145.3	15 minutes
Tensile Bond Strength		>3MPa Cohesive failure in concrete

COVERAGE RATE

TYPE	LITRES/m ²	m ² /KIT	WFT/COAT	NUMBER OF COATS	FINISHED DFT (ALL COATS)
All Applications	0.125	80	125µm	1	125µm

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 AND OVERCOATING TIME

TEMPERATURE	LIGHT FOOT TRAFFIC	MINIMUM OVERCOATING TIME	MAXIMUM OVERCOATING TIME	MAXIMUM 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

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.



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HEALTH & SAFETY ADVICE

Always provide adequate ventilation and wear appropriate personal protection equipment (PPE) during use. Avoid breathing vapours. Avoid contact with skin. If swallowed, DO NOT induce vomiting. Drink water and seek immediate medical advice. If contact with skin, wash off splashes of material with clean water and soap. If irritation occurs seek medical advice. Refer to the Safety Data Sheet (SDS) 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 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.

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.