

Enviro Shield

Hydrostatic Barrier and Moisture-tolerant Primer

DESCRIPTION

Enviro Shield is a two-part, water-based epoxy that acts as a hydrostatic barrier and primer. It can be used where a barrier against negative-side water ingress is required, and as a moisture-tolerant primer under a range of EnviroSystems membranes and UV-stable topcoats. Suitable for commercial, industrial, and residential applications.

AREAS OF USE

NEGATIVE SIDE (up to 25m head): Rising damp, below-grade basements and car parks, water-tank barrier coat, tunnels, lift wells and retaining walls.

NEGATIVE SIDE (up to 3m head): Efflorescence control and rising damp.

POSITIVE SIDE: Barrier coat under membranes and window reveals.

PRIMER: Self-priming barrier coat for internal and external wet areas and retaining walls, or where a premium adhesion primer is required.

FEATURES & BENEFITS

- Bonds to damp and green concrete.
- Negative-side barrier
- Rising damp control
- Resistant to a wide range of chemicals
- High solids, low VOC
- Water-based and easy to apply.

PRODUCT INFORMATION

Packaging	8L and 20L Kits
Mix Ratio	1 : 1 (A : B) by Volume
Colour	Grey
Shelf Life	12 months in original sealed containers
Storage Conditions	Store in dry conditions, protected from direct sunlight, between 5°C and 35°C.
Compatible Membranes	Enviro 700X Enviro 200P Ultra Enviro 500 EXT Enviro HP1200 Enviro HP1600
Compatible Coatings	Enviro Clad Enviro 250 NS

PHYSICAL PROPERTIES

Property	Test Method	Test Result
VOCs	ASTM D3960-05	<13 g/L
Pot Life	AS 1145.3	40–60 minutes

COVERAGE RATE

Application	Litres/m ²	Coats	Finished DFT
Primer – Diluted 20%	0.32	1	140 µm
Primer – Undiluted	0.32	1	160 µm
Positive Side	0.32	1	160 µm
Negative – up to 3m	0.66	2	320 µm
Negative – 3–25m	1.0	3	480 µm

WFT 320 µm per coat. Coverage depends on weather and substrate conditions.

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.

Surfaces must be clean, dry, and free from dust, laitance, grease, coatings, and curing compounds, with sharp edges and projections removed. Fill large holes and pits with Enviro Mortar 45; a cementitious skim coat may be needed for an even profile. Prepare to a minimum CSP3 profile.

- New concrete – cured min. 28 days, under 6% moisture
- Concrete blockwork – cured min. 28 days
- Renders and screeds – cured min. 7 days, under 6% moisture
- Compressed fibre cement (min. 15mm)
- Plasterboard walls – wet area grade only (min. 10mm)
- Masonry and stone surfaces

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

APPLICATION

Mixing: Add Part B to Part A and mix at low speed (less than 400 rpm) for 5 minutes or until uniform. Stand for 5 minutes, then mix again for 1 minute. As a primer, the first coat may be diluted up to 20% with water (8L Kit: 400mL / 800mL / 1.6L for 5/10/20%; 20L Kit: 1L / 2L / 4L).



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Application: Apply by brush, roller, or airless or conventional spray. Mix only what can be used within the 1-hour pot life. Apply sufficient coats to achieve the required DFT. Use forced ventilation in enclosed or damp spaces or above 85% RH. Do not apply below 10°C air or substrate temperature.

Overcoating: When priming, aggregate may be broadcast into the wet primer to improve holdup of the topcoat. At 23°C / 50% RH, overcoat between 8 and 24 hours.

Temperature	Min. Overcoat	Max. Overcoat	Full Cure
10°C @ 50% RH	24 hours	72 hours	7 days
15°C @ 50% RH	24 hours	48 hours	7 days
25°C @ 50% RH	8 hours	24 hours	7 days

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 Enviro systems technical support.

CLEANING

Clean tools and equipment with water before hardening. Cured material can only be removed mechanically.

LIMITATIONS

- Not suitable for UV-exposed areas unless overcoated.
- Do not apply below 10°C.
- NOT a suitable primer for Enviro 950 TC.

HEALTH & SAFETY ADVICE

Cured films are environmentally friendly. Provide adequate ventilation and wear PPE. If swallowed, DO NOT induce vomiting; drink plenty of water or milk. If in eyes, flush with water for 15 minutes and seek immediate medical advice. Wash skin with soap and water. 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 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 project.

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.

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