

Enviro Epoxy B-LV

Solvent-free Primer and Injection Resin

DESCRIPTION

Enviro Epoxy B-LV is a low-VOC, low-viscosity, chemical-resistant two-component epoxy resin. It can be used as a primer over dense concrete, as a bonding agent for both epoxy resin systems and cementitious mortars, and as a crack injection material.

AREAS OF USE

SURFACES: Dry concrete, damp concrete, brick, fibre cement sheet, plasterboard, and wood.

AREAS: Residential through to high-end commercial applications – primer for dense concrete, primer for damp cementitious substrates, concrete repair primer, primer for trafficable epoxy systems and polyurethane membranes, mortar-to-mortar bonding, crack injection resin, and epoxy mortar.

FEATURES & BENEFITS

- Low viscosity
- Long-term durability
- Low VOC
- Abrasion resistant
- Chemical resistant
- Excellent adhesion to dry, damp and/or dense mineral substrates.

PRODUCT INFORMATION

Packaging	18L Kit (Part A 12L / Part B 6L)
Mix Ratio	2 : 1 (A : B) by Volume
Shelf Life	24 months in original sealed containers. Once opened and resealed, shelf life may vary depending on storage conditions.
Storage Conditions	Store in dry conditions, protected from direct sunlight, between 5°C and 30°C.
Compatible Membranes	Enviro HP1200 Enviro HP1600 Enviro 700X Enviro 1000X
Compatible Coatings	Enviro Epoxy RC Enviro Ultra Tuff

PHYSICAL PROPERTIES

Property	Test Method	Test Result
VOCs	ASTM D3960	44 g/L
Tensile Strength	AS 1145.3	16 MPa
Compressive Strength	AS 1145.3	80 MPa
Tensile Bond Strength	AS 1145.3	>3 MPa
Pot Life	–	25–30 minutes

COVERAGE RATE

Application	Litres/m ²	Coats	Finished DFT
External Applications	0.3	1	300 µm

Approx. 60m² per 18L Kit; WFT 300 µm per coat. Coverage depends on substrate conditions. WFT gauges are available from Enviro systems on request.

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.

Use shotblasting, scarification, mechanical chipping, or high-pressure water blasting to achieve a minimum CSP3 profile. The surface must be clean, sound, and free from dust, laitance, grease, and other foreign matter. The product can be applied over damp surfaces.

APPLICATION

Mixing: Supplied in pre-proportioned kits. Mix full kits where possible; if mixing smaller quantities, the 2:1 (A:B) volume ratio must be strictly maintained. Smaller batches may give a longer pot life, while larger volumes can significantly reduce pot life due to exothermic heat – take precautions to manage heat build-up. Add Part B (hardener) to Part A (base) and mix with a mechanical mixer at low speed (less than 400 rpm) with a suitable paddle for 5 minutes or until uniform.

Application: Apply by brush or roller only. Avoid excessive build and do not allow material to pool on the substrate. Apply one coat to the required DFT (see Coverage Rate). Broadcast selected aggregate into the wet primer for extra mechanical adhesion of topcoats, removing excess aggregate before proceeding. Allow each coat to dry sufficiently before the next. Refer to the



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relevant topcoat data sheet for application recommendations.

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.

Overcoating: If the overcoat window is exceeded, thoroughly clean and dry the surface, reactivate with Enviro Thinner No. 1, then apply a light coat of Enviro Shield before the next membrane coat. A small site adhesion test is recommended before full application.

Temperature	Min. Recoat	Max. Recoat	Full Cure
10°C @ 50% RH	12 hours	72 hours	7 days
15°C @ 50% RH	8 hours	72 hours	7 days
25°C @ 50% RH	6 hours	48 hours	7 days

Variations in temperature and humidity affect cure rate. Use the table as a guide only; substrate temperature, enclosed environments and wind can also influence cure.

For applications or situations not covered above, contact Enviro systems technical support.

CLEANING

Clean tools and equipment before hardening with Enviro Thinner No. 1. Cured material can only be removed mechanically. Observe all safety information and the SDS relating to the safe use and handling of solvents.

LIMITATIONS

- Do not apply in rain or if wet weather is imminent.
- Avoid excessive film build and do not allow material to pool.
- Do not exceed the overcoat window without reactivation.

HEALTH & SAFETY ADVICE

Enviro Epoxy B-LV is non-hazardous according to Safe Work Australia criteria. However, as a precaution, always provide good ventilation when applying. Wash off splashes with clean water and wear gloves and eye protection. If irritation is experienced, seek medical advice. 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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