

PRODUCT DATA SHEET

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envirosystems
Protective Coatings & Sealants

INDUSTRIAL | COMMERCIAL | RESIDENTIAL

ENVIRO EPOXY B-LV



PRIMERS

SOLVENT FREE, NON-SAG, PRIMER & INJECTION RESIN

DESCRIPTION

Enviro Epoxy B-LV is 100% solids, solvent free, low viscosity, chemical resistant, 2-component epoxy resin. Enviro Epoxy B-LV 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.

FEATURES & BENEFITS

- Very low VOC
- Abrasion Resistant
- Anti-Microbial Formulation
- Very Low Viscosity
- Long Term Durability
- Chemical Resistance
- Non-Flammable
- Excellent adhesion to dry, damp and/or dense surfaces

PRODUCT INFORMATION

Packaging	Available in 3L, 18L kits [Light grey], Kits ratio is 2:1 (A:B).
Shelf Life	Enviro Epoxy B-LV can be stored in its original sealed containers for 24 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 Conditions	Enviro Epoxy B-LV should be stored in dry conditions, where it is protected from direct sunlight and at temperatures between +5 °C and +30 °C.

COVERAGE RATE

Type	Litres /m ²	m ² /18L kit	WFT per Coat	Number of Coats	Finished DFT (all coats)
External Applications	0.16	108	75 µm	1	75 µm

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 TIME

Temperature (at 50%RH)	Handle- hrs	Min. Overcoat - hrs.	Max. Overcoat - hrs.	Full cure - days
10°C	48	12	72	7 days
15°C	24	8	48	7 days
25°C	16	6	24	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.

AREAS OF USE

With its heavy-duty wear and chemical resistance, Enviro Epoxy B-LV can be used from residential to high-end commercial application.

It is most typically applicable as:

- Primer for dense concrete • Primer for damp substrates • Concrete repair primer
- Primer for trafficable epoxy systems • Mortar to mortar bonding
- Crack injection resin • Epoxy mortar • Primer for polyurethane membranes

COMPATIBLE MEMBRANES

Enviro Prime B-LV is suitable for use with the following range of EnviroSystems products:

- Enviro 700X • Enviro HP1200 • Enviro HP1200 LP • Enviro 1600 • Enviro Epoxy RC
- Enviro Ultra Tuff

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Volatile Organic Compounds	SCAQMD Method 304-91	<1 grams/litre
Tensile Strength	AS1145.3	16 MPa
Compressive Strength	AS1145.3	40 MPa
Tensile Bond Strength	AS1145.3	>3 MPa



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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.

DIRECTIONS FOR USE

SUBSTRATE PREPARATION

The surface must be clean, sound and free from all loose particles, including dust, laitance, grease or any other foreign matter. The substrate must be prepared by way of degreasing, grinding or captive shot blasting to expose the aggregate and provide a profile. Allow floor to dry if degreasing has been carried out, before applying Enviro Epoxy B-LV. The product can be applied over damp surfaces.

RESIN INJECTION

The crack should be blown out with an angle grinder. Enviro Epoxy BLV can be used with both high-pressure and low-pressure injection equipment.

MIXING

Enviro Epoxy B-LV is supplied as a 2-part solvent free epoxy system supplied in 18L (Part A 12L, Part B 6L) and 3L (Part A 2L, Part B 1L) kits proportioned ready for mixing. It is critical to mix Part A and Part B separately. Add Part B, liquid hardener, to the Enviro Epoxy B-LV Part A base. Enviro Epoxy B-LV should be thoroughly mixed with a mechanical mixer at low speed with a suitable mixing paddle attached. Mix for 5 minutes or until uniform with a mechanical mixer at low speed (less than 400 RPM) prior to application.

APPLICATION

Enviro Epoxy B-LV can only be applied using a brush or roller. Applications of excessive build should be avoided, and material must not be allowed to pool on the substrate surface. Apply one coat of Enviro Epoxy B-LV to achieve a minimum Dry Film Thickness (DFT) of 75 microns. Broadcast selected aggregate onto the Enviro Epoxy B-LV to achieve extra mechanical adhesion for topcoats. Remove excess aggregate prior to proceeding with additional coats. Enviro Epoxy B-LV can also be used as a primer/binder for a wide variety of EnviroSystems products. Please see the Compatible Membranes systems section for further details. Refer to appropriate data sheet for application recommendations.

NOTE: 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 details. Minimum application requirements set forth by the NCC and relevant Australian Standards should be followed when applying EnviroSystems products.

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.

RECOAT

Enviro Epoxy B-LV generally can be recoated after allowing to cure overnight; between 16 and 48 hours is recommended. If there is uncertainty about the conditions, allow longer drying time. Do not use if rain is imminent within 8 hours of application.

OVERCOAT

If the Epoxy B-LV is used as the primer for the subsequent toppings, it is important to overcoat the primer on the same day to avoid surface contamination. When priming, it is advised to broadcast aggregate/extender into the "wet" primer to enhance holdup of the subsequent applied topping.

CLEANING

Enviro Epoxy B-LV should be removed from all tools and equipment, prior to hardening, with Enviro Thinners No. 1. Cured material can only be removed mechanically. Observe all OH&S and safety data sheets (SDS) information pertaining to safe usage and handling of solvents.

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 of material with clean water, wear gloves and eye protection. If irritation is experienced seek medical advice. Refer to the safety data sheet (SDS) for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN

WE ARE 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
- Record all relevant SDS

Please do not hesitate to contact us for any questions you may have on **1300 WATERPROOF** (1300 928 377) or via email at:

customerservice@envirosystems.com.au.

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.

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