

Enviro Epoxy B-LV

SOLVENT FREE, PRIMER AND INJECTION RESIN

Enviro Epoxy B-LV is a low VOC and 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 AND BENEFITS

- Low viscosity
- Long term durability
- Low VOC
- Abrasion resistant
- Anti-microbial
- Chemical resistance
- Excellent adhesion to dry, damp and/or dense surfaces

APPLICATION SOLUTIONS

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 Enviro systems products:

- Enviro 700X
- Enviro HP1200
- Enviro HP1600
- Enviro Epoxy RC
- Enviro Ultra Tuff

PRODUCT INFORMATION

Packaging: Available in 3L, 18L kits. Kits ratio is 2:1 (A:B) in volume.

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.

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 Sheet information pertaining to safe usage and handling of solvents.



FLOORING



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. Shot-blasting, scarification, mechanical chipping or high-pressure water blasting may be used to achieve a recommended minimum CSP3 surface finish.

The surface must be dry, clean, sound and free from all loose particles, including dust, laitance grease or any other foreign matter.

The product can be applied over damp surfaces.

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 recommended to mix full kits of Enviro Epoxy B-LV to ensure optimal performance. When mixing smaller quantities, the correct mix ratio of 3:1 (Part A : Part B by volume) must be strictly maintained. Note that smaller batch sizes may result in a longer pot life, while larger volumes can significantly reduce pot life due to increased heat from the exothermic reaction. Take appropriate precautions to manage heat buildup. 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 150 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 Enviro systems 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.

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. 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.

OVERCOATING

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. Please refer to the curing times table on page 3 for the overcoating window.

Product Data

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS
Volatile Organic Compounds (VOCs)	ASTM D3960	44g/L
Tensile Strength	AS1145.3	16MPa
Compressive Strength	AS1145.3	80MPa
Tensile Bond Strength	AS1145.3	>3MPa
Pot Life		25 - 30 minutes

COVERAGE RATE

TYPE	LITRES/m ²	m ² /18L KIT	WFT/COAT	NUMBER OF COATS	FINISHED DFT (ALL COATS)
External Applications	0.16	108	150µm	1	150µm

NOTE: WFT = Wet Film Thickness. DFT = Dry Film Thickness. WFT Gauges are available from Enviro systems upon request.

Coverage dependent on substrate conditions.

CURING TIME

TEMPERATURE	MINIMUM RECOAT	MAXIMUM 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 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

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 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.