

Technical Data Sheet



Enviro Epoxy B-LV

Low Viscosity, Solvent Free, Epoxy Primer, Adhesive & Crack 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

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

Typical Uses

With its heavy duty wear and chemical resistance, epoxy can be used in all facets of industry, from residential to high end commercial application, it is most typically applicable to;

Primer for Dense Concrete	Mortar to Mortar Bonding
Primer for Damp Substrates	Crack Injection Resin
Concrete Repair Primer	Epoxy Mortar
Primer for Trafficable Epoxy Systems	Primer for Polyurethane Membranes

Physical Properties

Enviro Epoxy B-LV is supplied as 2 part solvent free epoxy system. Part A: Base, Liquid Part B: Hardener, Liquid

Solids content	100%
Mix Ratio (A:B)	2:1 (v/v)
Working time	40 min at 25°C
Tack free time	6 hours at 25°C
Recoat time	16-48 hours at 25°C
Tensile strength	16MPa
Compressive strength	40 MPa

Hard Dry	16 hours at 25°C
Tensile bond strength	>3MPa
Cure Time	7 days at 25°C
Shelf Life	2 years

Application Directions

Substrate Preparation

The surface must be clean and sound. Free from all loose particles, including dust, all laitance, greases, coatings, curing compounds, 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*.

Priming

Enviro Epoxy B-LV should be applied by brush or roller. Applications of excessive build should be avoided and material must not be allowed to pool on the substrate surface.

Resin Injection

Crack should be blown out with an angle grinder. *Enviro Epoxy B-LV* can be used with both high and low pressure injection equipment.

Mixing

Add Part B, liquid hardener to the *Enviro Epoxy B-LV* Part A base. Mix using slow speed mechanical mixing equipment with suitable mixing paddle attached. Mix for 5 minutes or until uniform.

Application

Enviro Epoxy B-LV can only be applied using a brush or roller. 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 top coats. Remove excess aggregate prior to proceeding with additional coats. *Enviro Epoxy B-LV* can also be used as primer/binder for a wide variety of systems such as *Enviro Epoxy SL*, *Enviro Epoxy RC*, *Enviro Epoxy WB* and also polyurethane and acrylic membranes. Refer to appropriate data sheet for application recommendations.

Estimating Data (theoretical)

The consumption of *Enviro Epoxy B-LV* will depend upon substrate condition or type.

Recommendations for External Applications

75µm Dry Film Thickness – 0.075L/m² (13.3m²/L)

Packaging

Enviro Epoxy B-LV is supplied in 18 litre (Part A 12 litre, Part B 6 litre) and 3 litre kits (Part A 2 litre, Part B 1 litre) proportioned ready for mixing.

Chemical Resistance

Enviro Epoxy B-LV is resistant to a large range of chemicals and is suitable for most dilute acids and alkalis. Contact EnviroSystems Technologies for recommendations on specific applications.

Cure

Enviro Epoxy B-LV generally can be recoated after allowing to cure overnight. Floors can be open to pedestrian traffic generally 24 hours after curing of the final coat. Vehicular traffic after 3 days. The coating must be allowed to cure for 7 days at 25°C, before being subjected to chemicals.

Storage

Enviro Epoxy B-LV can be stored in its original sealed containers for up to 24 months in controlled environments.

Cleaning

Enviro Epoxy B-LV should be removed from all tools and equipment, prior to hardening with *Enviro Thinners No. 1* or MEK. Observe all OH&S and MSDS information pertaining to safe usage and handling of solvents. Cured material can only be removed mechanically.

Safety Advice

Enviro Epoxy B-LV contents are considered non-flammable. Always provided adequate ventilation and wear appropriate Personal Protection Equipment (PPE) during use. Avoid contact with skin. Avoid breathing vapour. Wear protective eyewear. If swallowed, DO NOT induce vomiting, have plenty of water and milk. Seek immediate medical advice. Wash off splashed of material with clean water and soap. If irritation occurs seek medical advice. Refer to MSDS.

KEEP OUT OF REACH OF CHILDREN

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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 general nature, no assumption can be made as to a product's suitability for a particular used 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 Technologies either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not EnviroSystems Technologies are responsible for carrying out procedures appropriate to a specific application.



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