

Enviro Epoxy B

SOLVENT FREE EPOXY RESIN PRIMER, BINDER AND COATING

Enviro Epoxy B is 100% solids, solvent free, heavy duty, chemically resistant epoxy resin. Enviro Epoxy B once applied, produces a hard wearing, durable surface suitable for commercial and industrial applications. This system performs well in the most demanding environments and is resistant to a large range of chemicals and is suitable for most dilute acids and alkalis.

FEATURES AND BENEFITS

- ⦿ Very low VOC
- ⦿ Mechanically resistant
- ⦿ Anti-microbial formulation
- ⦿ Long durability
- ⦿ Chemical resistance
- ⦿ Non-flammable

APPLICATION SOLUTIONS

With its heavy-duty wear and chemical resistance, Enviro Epoxy B can be used in all facets of industry. From residential to high end commercial application, it is most typically applicable to:

- ⦿ Food production and processing
- ⦿ Chemical production
- ⦿ Waste water treatment
- ⦿ Water treatment and supply
- ⦿ Health care
- ⦿ Commercial kitchens and laundries
- ⦿ Dairy, sugar and textile production
- ⦿ Ports and marine
- ⦿ Warehouse floors

PRODUCT INFORMATION

Packaging: Enviro Epoxy B is supplied in 16L and 4L kits proportioned ready for mixing.

Shelf life: Enviro Epoxy B can be stored in its original sealed containers for up to 24 months when placed in a cool controlled environment. 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. If under, please contact Enviro systems for advice.

CLEANING

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



FLOORING



PRIMERS



AUSTRALIAN MADE

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. Host concrete must be roughened and aggregate exposed to ensure good bond. Removal of laitance is important to ensuring good bond. Shot-blasting, scarification, mechanical chipping or high-pressure water blasting may be used to achieve a recommended minimum CSP3 surface finish.

All surfaces must be free of dust, oils, and surface contaminants. This may require steam cleaning or high-pressure water blasting.

MIXING

Enviro Epoxy B is supplied as a 2-part solvent free epoxy system supplied in 16L (Part A 12L, Part B 4L) and 4L (Part A 3L, Part B 1L) kits proportioned ready for mixing. It is critical to mix full kits of Enviro Epoxy B only. Add Part B, liquid hardener, to the Enviro Epoxy B Part A base. Enviro Epoxy B 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 can only be applied using a brush or roller. Apply one coat of Enviro Epoxy B to achieve a minimum Dry Film Thickness (DFT) of 150 microns. Broadcast selected aggregate onto the Enviro Epoxy B to achieve extra mechanical adhesion for top coats. Remove excess aggregate prior to proceeding with additional coats. Enviro Epoxy B 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 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

COVERAGE RATE

TYPE	LITRES/m ²	m ² /16L KIT	WFT/COAT	NUMBER OF COATS	FINISHED DFT (ALL COATS)
External Applications	0.16	96	150µm	1	150µm

NOTE: WFT = Wet Film Thickness. DFT = Dry Film Thickness. WFT Gauges are available from EnviroSystems 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.



Contact Enviro systems

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HEALTH & SAFETY ADVICE

Enviro Epoxy B 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 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

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.