

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 product 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. Enviro Epoxy B is a great primer for various substrates including dry and damp concrete.

FEATURES AND BENEFITS

- Very low VOC
- Mechanically resistant
- Suitable for dry and damp (<6%) concrete
- 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
- Can be used as a primer
- Can be used as an epoxy screed

PRODUCT INFORMATION

Packaging: Enviro Epoxy B is supplied in 16L and 4L kits proportioned ready for mixing. Kits ratio is 3:1 (A:B) in volume.

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. 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



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 recommended to mix full kits of Enviro Epoxy B 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 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. 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 recommended to overcoat the primer within 24 hours to avoid surface contamination.

EPOXY MORTAR PREPARATION GUIDE

TYPE OF EPOXY MORTAR	SAND GRANULOMETRY	RESIN/SAND WEIGHT RATIO	MORTAR THICKNESS	PRIMER REQUIREMENT
Self-Levelling Mortar	0.1 - 0.5mm	From 1/1 - 1/2	0 - 2.6mm	No primer needed
Intermediate Screed	0.4 - 1.2mm	1/6	5 - 10mm	Enviro Epoxy B needed as a primer
Thick Epoxy Screed	1 - 4mm	1/10	12 - 15mm	Enviro Epoxy B needed as a primer

Product Data

PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	RESULTS
Volatile Organic Compounds (VOCs)	ASTM D3960	9g/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 FOR EACH COAT	m ² /16L KIT FOR EACH COAT	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 Enviro systems upon request.

Coverage dependent on substrate conditions.

CURING TIME

TEMPERATURE	MINIMUM RECOAT	MAXIMUM RECOAT	FULL CURE
10°C @ 50% RH	12 hours	24 hours	7 days
15°C @ 50% RH	8 hours	24 hours	7 days
25°C @ 50% RH	6 hours	24 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 EnviroSystems

NEW SOUTH WALES - HEAD OFFICE

Ground Floor, 295 Princes Highway, St Peters NSW 2044 | info@envirosystems.com.au

QUEENSLAND

Unit 3, 28 Burnside Road, Yatala QLD 4207 | info@envirosystems.com.au

VICTORIA

49 Wood Street, Thomastown VIC 3074 | info@envirosystems.com.au

WESTERN AUSTRALIA

78 Discovery Drive, Bibra Lake WA 6163 | perth@envirosystems.com.au

PHONE

1300 WATERPROOF (928 377)

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 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.