

Enviro Epoxy EF

SOLVENT FREE, NON SAG, EPOXY MORTAR BINDER

Enviro Epoxy EF is 100% solids, solvent free thixotropic epoxy adhesive mortar suitable for concrete repairs in vertical and overhead applications and for adhering a wide variety of construction materials. Epoxy EF performs well in the most demanding environments including on damp substrates and as the adhesive for Enviro Elastoflex.

FEATURES AND BENEFITS

- Low VOC content
- Restores structural design strength
- Chemically resistant
- Adheres to enviro elastoflex
- Insensitive to moisture
- Pre-proportioned kits
- Excellent adhesion
- Excellent abrasion resistance
- Multipurpose use
- High early strength
- Easy application – non sag
- No shrinkage

APPLICATION SOLUTIONS

Enviro Epoxy EF can be used for a variety of purposes including;

- Concrete crack repair
- Levelling mortar
- Waterproofing of damaged concrete
- Warehouse floor repair
- Grouting of bolts and anchors
- Production of non-sag mortars
- Spalling repair
- Adhesive for enviro elastoflex
- Adhesive for bonding to concrete
- Adhesive for immersed applications

PRODUCT INFORMATION

Packaging: Enviro Epoxy EF is supplied in 6kg kits proportioned ready for mixing.

Shelf life: Enviro Epoxy EF can be stored in its original sealed containers for up to 3 years 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 Envirosystems for advice.

CLEANING

Enviro Epoxy EF should be removed from all tools and equipment, prior to hardening with Enviro Thinners No. 7. Observe all OH&S and Safety Data Sheet information pertaining to safe usage and handling of solvents. Cured material can only be removed mechanically.



Directions for Use

SUBSTRATE PREPARATION

The surface must be clean, and free from all loose particles including dust, laitance, grease, and coatings, curing compounds or any other foreign matter. The concrete 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 EF.

For further information on substrate preparation or for project specific advice, please consult Envirosystems.

PRIMING

Priming may be required in certain circumstances, if required, apply Enviro Epoxy B-LV.

NOTE: For further information on applications that may require priming or for project specific advice, please consult Envirosystems.

MIXING

Mix both components of Enviro Epoxy EF separately to ensure no settlement. Add Part B (hardener) to the Part A (resin). Enviro Epoxy EF should be thoroughly mixed with a mechanical mixer at a low speed with a suitable mixing paddle until a uniform product is achieved (approximately 3 minutes).

APPLICATION

Enviro Epoxy EF can be applied using a trowel, brush or by hand. Application thicknesses should not be less than 2mm and more than 30mm. When using Enviro Epoxy EF as an adhesive, it is recommended that both adherents be coated and pressed into place. For vertical and overhead applications, it may be necessary to provide temporary support.

NOTE: Ensure there is no standing water on the substrate and the moisture content on substrate is <10%.

For further information regarding application of Enviro Epoxy EF or for project specific advice please consult Envirosystems.

RECOAT

Enviro Epoxy EF generally can be recoated after allowing to cure overnight.

CURE

Repairs can go into service generally 24 hours after curing.

NOTE: The coating must be allowed to cure for 7 days at 25°C, before being subjected to chemicals.

COVERAGE

The consumption of Enviro Epoxy EF will depend on the type of substrate and its condition.

1.9 - 2.0 kg/m² is required per mm (thickness) of Enviro Epoxy EF used.

Product Data

PHYSICAL PROPERTIES

PROPERTY	
Solids Content	100%
Mix Ratio (A:B)	2:1 (v/v)
Pot Life	45 mins @ 20°C
Packaging	Pre-proportioned 6kg kits
Tensile Strength	7MPa
Compressive Strength	55MPa
Application Range	10°C - 30°C
Cure Time	Initial – 1 day Full – 3 to 5 days
Shelf Life	3 years
Adhesion to Concrete	>3MPa
Adhesion to Steel	>20MPa



Contact Envirosystems

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HEALTH & SAFETY ADVICE

Enviro Epoxy EF 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.