

Enviro Epoxy B-NS

Solvent-free Non-sag Epoxy Mortar Binder

DESCRIPTION

Enviro Epoxy B-NS is 100% solids, solvent-free, thixotropic (non-sag) epoxy mortar binder for structural concrete repairs in vertical and overhead applications. It bonds to a wide variety of substrates, performs well in demanding environments, and can be used as an adhesive with Enviro HP1200 and to bond materials to cured polyurethane and epoxy membranes.

AREAS OF USE

SURFACES: Concrete and a wide variety of construction substrates, including cured polyurethane and epoxy membranes.

AREAS: Concrete crack and spalling repair, water treatment and supply, adhesive for bonding to concrete and for immersed applications, production of non-sag mortars, waterproofing of damaged concrete, warehouse floor repair, and grouting of bolts and anchors.

FEATURES & BENEFITS

- Very low VOC
- Restores structural design strength.
- Non-sag – suitable for vertical and overhead work
- Chemically resistant
- Adheres well to cured polyurethane.
- Excellent adhesion
- Waterproof
- Multi-purpose use

PRODUCT INFORMATION

Packaging	30L Kit – Part A 20L / Part B 10L, proportioned ready for mixing
Mix Ratio	2 : 1 (A : B) by Volume
Shelf Life	Up to 24 months in original sealed containers in a cool, controlled environment
Storage Conditions	Store in dry conditions, protected from direct sunlight, between 5°C and 30°C.
Compatible Primers	Enviro Epoxy B-LV
Compatible Membranes	Enviro HP1200 Enviro HP1600 Enviro 700X Enviro 1000X

Compatible Coatings	Enviro Epoxy RC
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PHYSICAL PROPERTIES

Property	Test Method	Test Result
Solids Content	–	100% v/v
Tensile Strength	–	14 MPa
Compressive Strength	–	55 MPa
Bond Strength	–	2.7 MPa
Working Time @ 25°C	–	1 hour
Full Cure @ 25°C, 50% RH	–	7 days

COVERAGE RATE

Consumption depends on the size of the repair, void, or bond line. For coverage rates specific to your project, contact Enviro systems technical support.

SUBSTRATE PREPARATION

The surface must be clean, sound, and free from loose particles, dust, laitance, grease, and other foreign matter. Prepare by degreasing, grinding, or captive shotblasting to expose the aggregate and provide a profile. Allow the floor to dry after degreasing.

Priming: Priming may be required in certain circumstances – if so, use Enviro Epoxy B-LV.

APPLICATION

Mixing: Add Part B (paste hardener) to Part A (base) and mix with a mechanical mixer at low speed with a suitable paddle for 5 minutes or until uniform.

Crack Injection: Blow out the crack with oil-free compressed air before injecting. Can be used with both high- and low-pressure injection equipment.

Repairs and Adhesive: Apply by trowel or squeegee. Apply sufficient material to completely fill the void, working it well into and fully wetting out the substrate.

Non-sag Mortar: Mix Parts A and B thoroughly, then add clean 600 µm aggregate at a ratio of 2 parts aggregate to 1 part epoxy.

As a Primer / Binder: Can be used under Enviro HP1200, Enviro Epoxy RC



PRIMERS

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and polyurethane and acrylic membranes – refer to the relevant data sheet. When priming, overcoat on the same day to avoid contamination; broadcast aggregate into the wet primer to improve holdup of the topping.

Recoating and traffic: Can generally be recoated after overnight cure. Floors are generally open to foot traffic 24 hours after the final coat and to vehicles after 3 days.

For applications or situations not covered above, contact EnviroSystems technical support.

CLEANING

Clean tools and equipment before hardening with Enviro Thinner No. 7. Cured material can only be removed mechanically.

LIMITATIONS

- Overcoat on the same day when used as a primer.
- Do not apply to wet or contaminated surfaces.

HEALTH & SAFETY ADVICE

Enviro Epoxy B-NS is non-hazardous according to Safe Work Australia criteria. As a precaution, always provide good ventilation when applying. Wash off splashes with clean water and wear gloves and eye protection. If irritation is experienced, seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

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 or 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 project.

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.

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