

# Enviro Prime WB

## Primer and Cementitious Admixture



### DESCRIPTION

Enviro Prime WB is a water-based polymer emulsion formulated as a primer for specific waterproofing membranes, an admixture for cementitious mortars and a bonding agent for spalling repair products.

### FEATURES

- Excellent adhesion to a variety of substrates
- Water resistant
- Flexible
- Increases tensile strength of mortars
- Excellent abrasion resistance
- Promotes high early strength in mortars
- Resistant to chlorides, alkalis, sulphates and mild acids
- Plasticizing effect and reduced shrinkage of mortars
- Non-toxic - can be used in potable water situations
- Lower water/cement ratio
- Enhanced corrosion protection

### TYPICAL USES

Enviro Prime WB is suitable for use in the following range of applications:

- Primer for waterproofing membranes
- Concrete bonding slurry
- Water resistant skim coat for damp surfaces
- Adhesion promoter for tile bed mortars
- Strength enhancing admixture for concrete repair mortars
- Render admixture

### PHYSICAL PROPERTIES

Form/Colour White Liquid

Specific Gravity 1.01

Application >5°C

Storage Temperature >0°C

Toxicity Non-Toxic

#### Typical Performance Data for Mortars Modified with Enviro Prime WB.

Flexural Strength >100MPa at 28 days

Compressive Strength >50MPa at 28 days

Frost/Thaw Resistance Excellent

Tensile Strength >5MPa at 28 days

### SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from all loose particles including dust, laitance, grease, or any foreign matter. All loose particles including dust, laitance, grease, coatings and curing compounds and the like should be removed by mechanical means. Steel surfaces should be treated with appropriate degreasers, then grit blasted and/or wire brushed where necessary.

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

[customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)

### MIXING

Stir well before use regardless of intended use. If using Enviro Prime WB as an additive in mortars, renders, screeds etc. ensure a mechanical mixer is used and materials are mixed thoroughly to desired consistency. Hand mixing is not recommended.



## APPLICATION

### As a primer for waterproofing membranes

Dilute 1 part Enviro Prime WB with 1 part water and brush/roll out over surface, ensuring a consistent coverage across entire area to be membrane. Allow to dry before proceeding with waterproofing membrane application.

### As an additive in bonding slurry

Mix 1 part Enviro Prime WB with 1 part (by volume) of cement and mix mechanically until a uniform consistency is achieved. Using a stiff brush and broom, apply the slurry mix to the pre-wet (no free water) surface, ensuring the bonding slurry is worked into the pores of the surface. Do not apply >2mm in thickness per coat.

### As an additive for renders

Apply 1 or more coats of render over still wet bonding slurry coat to average thickness of 10mm per coat so to ensure render does not sag. Multiple coat renders can be applied in quick succession providing adequate formwork is in place.

Please consult Waterproofing Technologies for further information if additional render coats are to be applied >24 hours after the last coat.

### As an additive in tile bedding compounds

Ensure substrate and back of tile are damp and apply bonding slurry. Then apply required thickness of mortar to back of tile using a mortar mix with 1 part Enviro Prime WB, 1 part water and cement to desired consistency and place firmly on wall or floor, ensuring full contact.

Remove excess mortar before drying and then leave to set. When setting height (thin beds) is an issue, tiles can be set in place with bonding slurry only.

### As an additive for Screeds & Toppings

Mix 1 part Enviro Prime WB to 3-4 part water as the mixing liquid and mix with sand and cement to desired consistency. Place screed or topping over still wet bonding slurry.

For critical applications, mixing liquid ratios can be change to 1 part Enviro Prime WB to 1 part water to ensure increased adhesion, chemical resistance or vapour resistance.

### As an additive in repair mortars

Mix 1 part Enviro Prime WB and 1 part water and then add sand and cement to desired consistency. Mixed repair mortar should be applied over still wet bonding slurry.

For further information regarding application of Enviro Prime WB or for project specific advice please consult EnviroSystems.

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## COVERAGE

The coverage of Enviro Prime WB will depend upon the substrate and its condition.

### Coverage Rate when used as a Primer

5-8m<sup>2</sup>/Litre

## PACKAGING & COLOURS

Enviro Prime WB is supplied in 1L, 4L and 15L drums.

## CLEANING

Enviro Prime WB should be removed from all tools and equipment, prior to hardening with water. Cured material can only be mechanically removed.

## SHELF LIFE

Enviro Prime WB can be stored in its original tightly sealed container for 18-24 months if kept stored in a dry place out of direct sunlight and between 3°C and 35°C. Always check product quality before using after prolonged periods of storage. If unsure, please contact EnviroSystems for advice.

## IMPORTANT NOTES

Newly laid screeds, toppings, renders and mortars should be covered and protected from winds, cold weather and direct sunlight during cure. Rapid curing can result in shrinkage or insufficient strength. Expansion joints in substrates should be carried through into Enviro Prime WB modified mixtures. Prime WB mixtures should only ever be applied to damp surfaces.

If free or running water is present, this needs to be removed prior to application. Aggregate used in mixtures should be washed, and free from excessive amounts of fines. High Alumina cements are not recommended to be used with Prime WB. Such cement may not be compatible and may delay hardening/curing.

## HEALTH & SAFETY ADVICE

Always provides adequate ventilation and wears personal protective equipment during application. If swallowed, DO NOT induce vomiting. Give glass of water and seek medical assistance. Refer to the Safety Data Sheet for full safety and handling procedures.

**NOTE:** Safety Data Sheets are available upon request by emailing [customerservice@envirosystems.com.au](mailto:customerservice@envirosystems.com.au)



## We're here to help you!

It is a good idea to keep a journal of your waterproofing job, whether big or small.

- Take pictures at all stages of your work, including preparation
- Record the quantity and description of products used with corresponding batch numbers
- Record dates and times of when you applied products, from start to finish

Please do not hesitate to contact us for any questions you may have.

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