

# Enviro Prime WB

## Primer and Cementitious admixture



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### Description

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.

### Advantages

- Excellent adhesion to a variety of substrates
- Water resistant
- Flexible
- Increases tensile strength of mortars
- Excellent abrasion resistance
- Promotes high early strength in mortars
- Enhanced corrosion protection
- 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

### Uses

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

### Physical Properties

- Form/Colour – White liquid
- Specific Gravity – 1.01
- Application Temp - >5°C
- Storage Temp - >0°C
- Toxicity – Non-toxic

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

- Flexural Strength- >10MPa @ 28 days
- Frost/Thaw Resistance – Excellent
- Compressive Strength - >50MPa @ 28 days
- Tensile Strength - >5MPa @ 28 days

### Application Directions

#### Substrate Preparation

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.

#### Mixing

Stir well before use regardless of intended use. If using 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 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 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.

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**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 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 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 Prime WB to 1 part water to ensure increased adhesion, chemical resistance or vapour resistance.

**As an additive in repair mortars** – Mix 1 part 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.

## Estimating data

Dependant on chosen application, dosage rates and consistencies required.

## Packaging

Prime WB is supplied in 1, 4 and 15 litre containers

## Curing

Cover repaired areas to prevent premature drying . Do not moist cure. Good mortar placement practices apply.

## Cleaning

Clean all equipment prior to hardening with water.

## Shelf life

18 months to 24 months in original sealed containers if kept stored in a dry place out of direct sunlight and above 0°C.

## 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 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.

## Safety

Enviro PRIME WB is not classified as dangerous and is not toxic but precautions should be taken while using the product. Avoid prolonged skin contact. Wear protective clothing, gloves, goggles, mask etc. In the event of contamination was thoroughly with water. If the eyes or mouth are affected, wash with clean water immediately and seek medical attention. For more information, please refer to our Materials Safety Data Sheet.



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