



# Enviro Cemflex

## Exterior Grade UV Resistant Waterproofing Membrane



### DESCRIPTION

Enviro Cemflex is a cement based 2-part polymer modified waterproof slurry coating. It is applied to concrete, masonry and mortar to prevent water infiltration.

### FEATURES

- Pre-batched components
- Increased salt and frost resistance
- Excellent Adhesion
- Non-Toxic
- Non-Corrosive to steel or iron
- Protects against concrete carbonation and water ingress
- Permeable to water vapour

### TYPICAL USES

Enviro Cemflex is suitable for use on a variety of substrates including; concrete, block, render, and many other stable masonry-based substrates. Once applied it provides a solid protective waterproof layer.

- Internal & external basement walls
- Portable concrete water tanks
- Fine 'hairline' cracks in concrete
- Swimming pools
- General Interior & exterior waterproofing
- Retaining walls
- Seawalls
- Bathroom floors
- Terraces and balconies
- RC gutters & planter boxes

### PHYSICAL PROPERTIES

Form / Colour	Part A – White Liquid Part B – Grey/White Powder Mix – Grey Slurry
Mix Ratio (A:B) 1:4 (w/w)	Mix Ratio (A:B) 1:4 (w/w)
Mix Density 1.9-2.0 kg/L	Mix Density 1.9-2.0 kg/L
Adhesive Strength 1.0 to 0.5 N/mm <sup>2</sup>	Adhesive Strength 1.0 to 0.5 N/mm <sup>2</sup>
Pot Life 30 mins @ 25°C	Pot Life 30 mins @ 25°C
Coefficient of Permeability, K(m/sec under 3kg/cm <sup>3</sup> of water pressure)	
Mortar (Grade 20N/mm <sup>2</sup> )	6.49 × 10 <sup>-11</sup>
Mortar coated with Cemflex	1.27 × 10 <sup>-2</sup>
Comparative Ratio	0.02
E-modulus (Static)	8.400N/mm <sup>2</sup>
CO <sub>2</sub> Diffusion Resistance	37,015μ
Water Absorption (kg/m <sup>2</sup> ), Concrete coated with Cemflex	0.035
Water vapour resistance (Sd in m) Concrete 1.7, Concrete coated with Cemflex	2.06

### SUBSTRATE PREPARATION

Concrete, mortar and masonry surfaces must be clean, free from grease, oil, laitance, loosely adhering particles and sharp edges. Absorbent surfaces must be thoroughly saturated with water prior to application of first coat of Enviro Cemflex. However, no loose standing water should be on the surface before application. All intersections of horizontal and vertical surfaces should be profiled with a mortar fillet of 25mm x 25mm.





**NOTE:** Enviro Cemflex will not bond to surfaces that have been treated previously with water repellent. Apply to only clean, sound substrates with surfaces well dampened but free of surface water and leaks.

**NOTE:** Minimum ambient and substrate preparation temperature is 8°C.

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

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## MIXING

Under normal circumstances, when the full quantities of both parts are mixed together, a slurry consistency will result. The consistency of the mix can be altered by reducing the amount of Part A (liquid) used. For trowel application, use only 90% of Part A (approximately 4.5kg). Do not add water or any other mixtures and compounds. Mix in clean container by slowly adding the powder component (Part B) to the liquid component (Part A) and stirring with a low-speed mixer (500rpm).

**NOTE:** Use Enviro Cemflex within 30 minutes of mixing.

## APPLICATION

Whilst the substrate is still damp from saturation, apply the first coat of Enviro Cemflex. Leave to harden for approximately 4-8 hours at temperatures above 20°C before applying the second coat.

For slurry consistency, apply with a hard plastic bristled brush or broom. For floor applications, to avoid risk or damage to the first coat, it is recommended that the second coat be applied before 24 hours.

If the second coat is applied 12 hours or later, the first coat should be slightly pre-wetted, preferably by using a fine spray. After the second coat has been applied, better finishes can be achieved by rubbing down with a soft, dry sponge. Enviro Cemflex can also be applied by trowel or by spraying.

**NOTE:** Optimum application temperature should be from 8°C - 32°C. Never apply more than 4kg per m<sup>2</sup> in one single layer.

**NOTE:** For portable water application, wash the surface with water before use.

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

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## OVERCOATING

For over coating with cementitious material, allow the second coat of Enviro Cemflex to harden at least 3 days prior to over coating.

For over coating with non-cementitious materials or for project specific advice please consult EnviroSystems.

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## COVERAGE

The coverage of Enviro Cemflex will depend upon the type of substrate and its condition. When prepared and primed in accordance with the instructions above, the following average coverage rates should be expected.

Recommendations for Bathrooms, Terraces and Balconies	
Standard Coating	1 kg / m <sup>2</sup>
Protective Coating	2kg/m <sup>2</sup>
Recommendations for Waterheads	
Coating < 1 meter waterhead	1.5kg / m <sup>2</sup>
Coating > 1 meter waterhead	2.0 kg/m <sup>2</sup>

**NOTE:** Enviro Cemflex must be applied in a minimum of 2 coats (3 coats may be required in areas of extremely high infiltration).

## CURE

Cure times are generally not required but precaution should be taken for application done directly under sunlight and in windy conditions. Enviro Cemflex should also be protected from direct rain for at least 4 hours.

**NOTE:** Enviro Cemflex is not a decorative treatment and may display signs of “blooming” in damp weather conditions. This does not affect the quality of the coating in any way. Where a decorative finish is required, overpaint Enviro Cemflex with any approved Enviro protective and decorative coating.

## PACKAGING & COLOURS

Enviro Cemflex is supplied in 25kg kits.

**Part A:** 5kg containers

**Part B:** 20kg bags

## CLEANING

For easy removal of Enviro Cemflex from tools and surfaces, immediately clean with water before it has time to dry. Hardened material can only be removed mechanically.



## SHELF LIFE

Enviro Cemflex can be stored in its original sealed container for 12 months when stored in a dry place. 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 unsure, contact EnviroSystems for advice.

## HEALTH & SAFETY ADVICE

Enviro Cemflex 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 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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## STATEMENT OF RESPONSIBILITY

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