



# Enviro CSH

## Concrete Surface Hardener and Moisture Barrier



### DESCRIPTION

Enviro CSH is a one component, ready to use, spray applied surface hardener that penetrates into concrete and masonry substrates to provide waterproofing protection against wear and water ingress.

When applied to green concrete Enviro CSH will assist with concrete curing / moisture retention and conforms to AS1884-2012 as a moisture suppressant.

### FEATURES

- Water Based - Safe to use, easy clean up
- Zero VOC content
- Stop water ingress from all directions
- Increases concrete longevity
- Hardens and densifies concrete surfaces
- Australian made and owned
- Improves tensile & compressive strength
- Compatible with most EnviroSystems membranes and epoxies
- Minimises freeze/thaw damage
- Reduces efflorescence

### TYPICAL USES

Used for protecting concrete substrates such as;

- Raft Slabs
- Warehouse floors
- Commercial & retail premises/shops
- Garage floors
- Stairwells and corridors
- Screeds as secondary block

### PHYSICAL PROPERTIES

Appearance	Clear
Solubility	Fully miscible in water
Re-coat Time	3 – 4 hrs (23° 50% RH)
Over Coat Time	24 hrs (23° 50% RH)
Cure Time	24 hrs (23° 50% RH)
Odour	Minimal
VOC Content	Nil

### SUBSTRATE PREPARATION

Surfaces must be clean, dry and free from contamination such as dust, laitance, grease, coatings and curing compounds. Polished and burnished concrete limiting the penetration of the Enviro CSH should be mechanically profiled to ensure a sufficient surface for application.

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

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

### PRIMING

No priming is required for Enviro CSH.

**NOTE:** For further information on applications that may not require priming or for project specific advice, please consult EnviroSystems.

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### MIXING

Enviro CSH should be stirred by hand or mechanical means for 20 seconds to ensure product uniformity.



## APPLICATION

It is recommended that Enviro CSH be applied by suitable spray equipment such as the Chapin 64800 Pro Series backpack spray unit.

Do not apply to substrates that are frozen, when temperatures are below 3°C or when rain is forecast within 3 hours.

Suitably cover all building components that are not being treated with Enviro CSH. If Enviro CSH comes in contact with tiles, glass or metals surfaces, flush immediately with water. Do not allow to dry on the surface.

### Green Concrete

Apply to the newly poured concrete as soon as practical after the concrete is finished and or sufficiently set to allow the surface to be walked on.

Spray Enviro CSH at a rate of <4.5m<sup>2</sup>/L to the surface ensuring a 50% overlap on each pass. Application should always start on the lowest elevation point before moving up.

If Enviro CSH begins to pond on the surface, use a soft broom to spread until excess Enviro CSH penetrates. Do not allow material to dry and harden of the surface.

If Enviro CSH is to gel on the surface, use a suitable tool to remove such as a rubber squeegee or similar.

### Cured Concrete

In hot climates, lightly mist the surface to be treated with water (without creating ponding).

Apply Enviro CSH in the same manner as described above for green concrete.

Enviro CSH will penetrate highly porous much quicker than that of substrates with a normal porosity level. It is recommended that these porous substrates have additional coats of Enviro CSH applied.

**NOTE:** Allow each coat to sufficiently dry before proceeding to the next coat.

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

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## APPLICATION RATES

Surface	Rate m <sup>2</sup> /L (per coat)	Number of Coats
Green Concrete	4.5	1
Cured Concrete	4.5	1
Porous Concrete*	4.5	2

\*It is the responsibility of the applicator to determine the porosity of the substrate being treated and the subsequent number of coats required.

## RECOAT

Enviro CSH can be recoated after 3-4 hours at 23°, 50% RH and depending on conditions of good air flow.

## OVERCOATING

If required, Enviro CSH can be overcoated 24 hours after application with floor covering and coatings such as EnviroSystems Waterproofing & Epoxy Flooring Range.

After this 24 hours period, follow the application directions of the coating that is to be applied including the recommended surface preparation.

## COVERAGE

The coverage of Enviro CSH will depend upon the porosity of the substrate and its condition. The following average coverage rates should be expected.

Green Concrete	4.5m <sup>2</sup> /L 67m <sup>2</sup> per pail
Cured Concrete	4.5m <sup>2</sup> /L 67m <sup>2</sup> per pail
Porous Concrete	<4.5m <sup>2</sup> /L <67m <sup>2</sup> per pail

## PACKAGING & COLOURS

Enviro CSH is a clear product supplied in 15 litre pails.

## CLEANING

For easy removal of Enviro CSH from tools and surfaces immediately clean with water before it has time to dry. If it has dried attempt physical removal.

## SHELF LIFE

Enviro CSH can be stored in its original sealed containers indefinitely when placed in a cool environment above 4°C. Always check product quality before using after prolonged periods of storage. If unsure, please contact EnviroSystems for advice.

## HEALTH & SAFETY ADVICE

Enviro CSH 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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