



# Enviro CSH

APPLICATION METHOD STATEMENT



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## Introduction

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 surface wear.

The following sections provide comprehensive instructions for the preparation of substrates and the correct installation procedures for Enviro CSH.



## General Information

This installation manual has been developed by EnviroSystems Technologies to support the structured and consistent application of EnviroSystems waterproofing systems, with the objective of ensuring optimal product performance and quality control.

The design and installation of waterproofing membranes must be executed in accordance with applicable Environmental Protection Authority (EPA) regulations and all relevant statutory and legislative requirements.

The procedures and parameters detailed herein are intended to serve as general application guidelines and should be interpreted as such. This document does not supersede operational protocols or contractual requirements. All over coat times within this document are based on the temperature being 25°C and 50% RH. Different temperature conditions can affect the curing times.

EnviroSystems Technologies accepts no liability for any damage, failure, or deficiency resulting from improper handling, installation, or subsequent modification of the products by any third party.

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## Product Specification

Component	Details
Substrate	<p>Enviro CSH can be applied over the following suitably prepared substrates:</p> <ul style="list-style-type: none"><li>• Concrete</li><li>• Blockwork (flush joints)</li><li>• Most other porous masonry substrates</li></ul>
Coating	<p><u>Enviro CSH</u></p> <ul style="list-style-type: none"><li>• Water Based - Safe to use, easy clean up</li><li>• Zero VOC content</li><li>• Increases concrete longevity</li><li>• Hardens and densifies concrete surfaces</li><li>• Applied at a rate of 0.22L/m<sup>2</sup> in 1 application. For porous substrates, 2 coats maybe required.</li></ul>



## Application Procedure

Application is to be done by accredited applicators only and strictly in accordance with the product data sheet. The appropriate product data sheets should be read and understood thoroughly before the application.

### SUBSTRATE PREPARATION

#### Concrete

- Ensure that the concrete substrate is free from contaminants including curing compounds. Optimum surface preparation includes, mechanical profiling, such as captive shot blast cleaning or vacuum grinding to achieve a concrete surface profile (CSP) of CSP2/CSP3.
- Moisture content < 4.5%.

### ENVIRO CSH APPLICATION

#### Mixing

- Enviro CSH is a one component product supplied in pre-weighed packages of 20 litres. Enviro CSH should be stirred by hand or mechanical means for 20 seconds to ensure product uniformity.

#### Application

- Enviro CSH application is to be by accredited / trained applicators only.
- 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.
- Spray Enviro CSH at a rate of <math>4.5\text{m}^2/\text{L}</math> 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.
- In hot climates, lightly mist the surface to be treated with water (without creating ponding).
- Enviro CSH will penetrate highly porous substrates 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.
- Allow each coat to sufficiently dry before proceeding to the next coat. Re-Coating

## Product Application Summary Table

	<b>Product</b>	<b>Dry Film Thickness (min)</b>	<b>Minimum Overcoat</b>	<b>Maximum Overcoat</b>
Coating	Enviro CSH	N/A	24 hours	N/A

## Basic Requirements

### Materials

- All Envirosystems products delivered to a construction site shall be equipped with the correct original with the following information:
  - Product name.
  - Supplier information.
- All Envirosystems materials should be inspected upon its delivery to the construction site, the material can only be used after ensuring no damage or contamination.
- When transporting and storing Envirosystems products:
  - Stack the products separately according to product type and specifications.
  - Avoid exposure to sun and rain.
  - Keep well ventilated.
  - Control temperature, so as not to exceed 45°C.

### Application

- All applicators shall obtain sufficient and relevant training in waterproofing and the application of waterproofing membranes.
- All scaffolding and installation infrastructure shall be installed in accordance with the relevant Australian Standard.
- The preparation and maintenance of the substrate shall be undertaken observing the design and standard requirements.
- All embedded pipe fittings shall be embedded in advance in accordance with the design and standard specifications. All embedded pipe fittings should be sufficiently sealed prior to installation of the membrane.
- Application of Envirosystems products should not occur during any form of precipitation, whilst experiencing winds greater than 40 km/h, whilst the temperature is below 5°C.
- A quality control assessment shall be completed, with full inspection and completed records indicating that the various installation procedures have been completed to a satisfactory level.
- Ensure that all installation contractors are wearing the correct Personal Protective Equipment (PPE), as per product and site requirements.
- Contractor ITP's to be adhered to and hold points signed off.



## Quality Inspection & Assurance

### General Requirements

The approved waterproofing applicators Inspection Test Plan is to be followed and all hold points, and inspections, are to be recorded and sign off prior to subsequent works commencing.

## Contact Enviro systems

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