

Enviro CSH

Spray-applied Concrete Surface Hardener

DESCRIPTION

Enviro CSH is a one-component, ready-to-use, spray-applied concrete surface hardener. It penetrates concrete and masonry to harden and densify the surface as well as protect against wear and water ingress. Applied to green concrete, it also assists curing and moisture retention.

CLASSIFICATION

AS 1884-2012 – Conforms as a moisture suppressant when applied to green concrete.

AREAS OF USE

SURFACES: Green and cured concrete, and masonry.

AREAS: Raft slabs, warehouse floors, commercial and retail premises, garage floors, stairwells and corridors, and screeds as a secondary barrier.

FEATURES & BENEFITS

- Water-based – safe to use, easy clean-up.
- Zero VOC
- Hardens and densifies concrete surfaces.
- Improves tensile and compressive strength.
- Stops water ingress from all directions.
- Reduces efflorescence and freeze-thaw damage.
- Increases concrete longevity.
- Australian made and owned.

PRODUCT INFORMATION

Packaging	15L Pails
Colour	Clear
Shelf Life	Indefinite in original sealed containers
Storage Conditions	Store in a cool environment above 4°C.

PHYSICAL PROPERTIES

Property	Test Method	Test Result
Appearance	–	Clear
Solubility	–	Fully miscible in water
Recoat Time	23°C / 50% RH	3–4 hours
Overcoat Time	23°C / 50% RH	24 hours

Property	Test Method	Test Result
Cure Time	23°C / 50% RH	24 hours
Odour	–	Minimal
VOC Content	–	Nil

COVERAGE RATE

Surface	m ² /L per coat	Coats	Coverage
Green Concrete	4.5	1	≈67 m ² /pail
Cured Concrete	4.5	1	≈67 m ² /pail
Porous Concrete*	<4.5	2	<67 m ² /pail

*The applicator is responsible for assessing substrate porosity and the number of coats required.

SUBSTRATE PREPARATION

Surfaces must be clean, dry, and free from dust, laitance, grease, coatings, and curing compounds. Mechanically profile polished or burnished concrete that would limit penetration.

Priming: No priming required.

APPLICATION

Mixing: Stir by hand or mechanically for 20 seconds to ensure uniformity.

Application: Apply with suitable spray equipment, such as a backpack sprayer. Cover all building components not being treated; flush any overspray on tiles, glass, or metal immediately with water and do not allow it to dry.

Green concrete: Apply as soon as practical after finishing, once the surface can be walked on. Spray at up to 4.5 m²/L with a 50% overlap on each pass, starting at the lowest point. Spread any ponding with a soft broom until absorbed; remove any gel with a rubber squeegee. Do not allow material to dry on the surface.

Cured concrete: In hot climates, lightly mist the surface with water first (without ponding), then apply as for green concrete. Highly porous substrates absorb faster and may need additional coats.

Recoating: Allow each coat to dry. Recoat after 3–4 hours at 23°C / 50% RH with good airflow.

Overcoating: After 24 hours, can be overcoated with floor coverings and Enviro systems waterproofing and epoxy flooring products – follow the



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preparation and application directions of the product being applied.

For applications or situations not covered above, contact EnviroSystems technical support.

CLEANING

Clean tools and surfaces immediately with water before the product dries. If dried, remove physically.

LIMITATIONS

- Do not apply to frozen substrates or below 3°C.
- Do not apply if rain is forecast within 3 hours.
- Do not allow to dry or gel on the surface.

HEALTH & SAFETY ADVICE

Enviro CSH is non-hazardous according to Safe Work Australia criteria. As a precaution, always provide good ventilation when applying. Wash off splashes with clean water and wear gloves and eye protection. If irritation is experienced, seek medical advice. Refer to the Safety Data Sheet for full safety and handling procedures.

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to accuracy, reliability, or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

NOTE: Field service where provided does not constitute supervisory responsibility. Suggestions made by EnviroSystems, either verbally or in writing may be followed, modified, or rejected by the owner, engineer, or contractor since they, and not EnviroSystems, are responsible for carrying out procedures appropriate to a specific project.

NOTE: All products manufactured by EnviroSystems comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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