PRODUCT DATA SHEET

ECO SEAL

HIGHLY DURABLE SILICA-BASED SEALER & HARDENER FOR INTERIOR & EXTERIOR CONCRETE

PRODUCT DESCRIPTION

Eco Seal is a premium, environmentally friendly silica-based co-polymer specifically formulated to seal, harden and enhance concrete surfaces with a durable finish that raises sheen levels with each coat. Its quick drying properties allow you to apply as many coats as desired in fast succession to achieve the individual look and feel you are after. You also have the option to buff the surface to a mirror-like finish, achieving the look of a fully polished floor.

This advanced formula creates a tough protective layer that is breathable, allowing water to pass through so it will never delaminate—providing exceptional resistance against staining, erosion, and dust accumulation. Eco Seal will not leave staining or application marks, such as overlap lines or "picture framing" (unsightly borders around the room).

Eco Seal can be easily maintained by the homeowner: simply give it a good scrub to get it clean and mop on another coat. It is designed so that anyone can do it and requires no specialised training.

Featuring superior UV stability and non-yellowing properties, it is ideal for extreme Australian climates. It offers outstanding gloss retention, minimal water sensitivity, and significantly reduces water vapour permeability, thereby effectively preventing the growth of mold and mildew.

As a water-based product, Eco Seal is virtually odourless, free from toxic volatile organic compounds (VOCs) and designed to minimise environmental impact while ensuring safe application.

USES

Eco Seal is suitable for both interior and exterior applications, ideal for rejuvenating old weathered concrete surfaces or protecting and enhancing mechanically ground, smoothed, and polished concrete floors to get a polished concrete look and feel under feet.

Eco Seal can be applied to green concrete at time of finishing.

Suitable for polishes up to 200 resin; for levels greater than 200 resin, please use Eco Seal Premium.

KEY BENEFITS

- **Enhanced UV Stability:** UV-stable with a permanent sheen and exceptional weather resistance, ideal for harsh environmental conditions
- **Increased Durability:** Hardens and densifies concrete, significantly enhancing abrasion resistance and reducing surface erosion and dust accumulation.
- **Advanced Moisture Protection:** Acts as an effective moisture barrier, significantly reducing the risk of surface spalling and enhancing structural longevity.

- **Superior Water Resistance:** Highly resistant to water and chemicals, offering robust protection against stains, spills, and potential surface damage for extended lifespan and easier maintenance.
- **Exceptional Cleanability:** Superior dirt pick up resistance, ensuring effortless cleaning and minimal maintenance for consistently pristine surfaces.
- **Efflorescence Protection:** Highly resistant to efflorescence, effectively preventing sealer deterioration and extending the lifespan of treated surfaces.
- **Eco-Friendly Formula:** Environmentally friendly and virtually odourless, ensuring safety for indoor applications and significantly reducing environmental impact.
- **User-Friendly Application:** Easy-to-apply, ready-to-use formula with rapid drying times, reducing downtime and enhancing project efficiency.

COVERAGE

Coverage will vary based on the surface condition:

- **Polished concrete:** Approximately 20m^2 per litre
- **Old porous concrete:** Approximately 5m^2 per litre for the first coat then 10m^2 per litre for the second coat.

SURFACE INSPECTION

Surfaces must be thoroughly clean and free from grease, loose paint, oils, dust, curing agents, or other contaminants that may impair adhesion.

SURFACE PREPARATION

The substrate should be properly cleaned by diamond grinding or shot blasting. Alternative preparation methods such as high-pressure cleaning must ensure the surface is porous enough to allow proper product penetration and adhesion.

Eco Seal can be applied to damp concrete after washing and cleaning. On hot days where the concrete is extremely dry and reaching high temperatures, it can be beneficial to hose exterior slabs to reintroduce some moisture to begin the process of osmosis to help with penetration and adhesion. Once the concrete dries from wet to damp, apply the first coat of Eco Seal.

If acid etching is used, ensure thorough neutralisation and rinsing according to manufacturer instructions, and allow the substrate to fully dry before application. If the surface is left damp after using acid etching, materials such as Hydrochloric Acid will remain active; when left to completely dry, they are neutralised.

APPLICATION

Outdoor Coarser Concrete (Broom Finished or Coarse Honed)
The most time effective and easiest way to apply eco seal to large exterior areas is to use a pump pack sprayer like any ordinary garden sprayer. Spray onto the surface in even coats. To promote penetration and adhesion, you can lightly scrub Eco Seal into the surface with a soft-bristled broom.

In outdoor applications, coats can dry in as little as 15 – 30 minutes so you can reapply with no down time and install as many costs as desired.

Internal Smooth Finished Concrete

Pour a small puddle directly from the container onto the floor and sweep the puddle around evenly with a microfibre flat mop. It is best to sweep in figure 8 motion rather than from wall to wall. Be sure to fully saturate the concrete on the first coat but avoid leaving puddles. Do not be concerned with leaving application marks; when applying in this method the material stays wet long enough that there is ample time for application.

For subsequent coats, much less material will be required because the floor will be sealed. Be careful not to pour too much Eco Seal from the bottle, as the spread rate will double and in some cases quadruple because the material will sit proud on the concrete surface. Apply a nice even coat and leave to dry.

Once dry, Eco Seal can be buffed with a red or white nylon pad or a fine diamond-impregnated buffing pad. When buffing immediately after Eco Seal has dried, a softer pad at a slower speed is best as the material is still soft. After 24-48 hours, higher speeds and coarser pads may be required as the material is reaching full cure.

MAINTENANCE

Eco Seal surfaces are best maintained using Eco Clean or Eco Disinfectant.

For complete guidance on maintaining and preserving the sealed surface, please refer to our comprehensive Care Instructions on our website.

LIMITATIONS

- Do not apply at temperatures above 30°C or below 10°C
- Avoid application during rain or when rainfall is expected within the following 24 hours
- Always consult the Safety Data Sheet (SDS) before product use

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TECHNICAL SPECIFICATIONS

Property	Specification
Appearance	Transparent milky-blue liquid
Odour	Slight
Spread Rate	5 – 20m^2 per litre
Specific Gravity	1.02-1.04
Flammability	Non-flammable
Water Solubility	Dispersible
Shelf Life	2 years (store at 10-35˚C)

Packaging Sizes	Available in 5, 15, 200 and 1000 litre containers

HEALTH & SAFETY

For detailed safety information, refer to the **latest Safety Data Sheet (SDS)** available at www.ecoshield.com.au.

For emergencies, contact 24-hour mobile support at 0413 075 994.

First Aid Measures

- **If swallowed:** Do not induce vomiting. Dilute with milk or water and seek medical advice if necessary.
- **If in eyes:** Rinse immediately with water for several minutes. Remove contact lenses if present. Continue rinsing and seek medical attention if irritation persists.
- **If on skin:** Wash thoroughly with soap and water. If irritation persists, seek medical assistance.

Poisons Information Centre: 131 126.

MANUFACTURER'S DISCLAIMER

The use of this product in combination with other manufacturers' products may impact its performance. Ecoshield Performance Coatings Pty Ltd is not responsible for any issues arising from improper application or deviation from recommended procedures.

Product formulations and application methods are subject to updates—please ensure you have the latest information.

CONTACT INFORMATION

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