

ENDURAFLOOR RC ESD

SYSTEM DATA SHEET

Heavy duty solvent free electrostatic dissipative epoxy system



Technical Snapshot

Shore D Hardness

75

Electrical Resistance IEC 61340-4-1

Resistance to Ground $<10^9$ Ohms

Bond Strength to Concrete

> 1.5 MPa

Abrasion Resistance ASTM D4060

60mg / 500 cycles, CS17, 1kg

Fire Resistance AS ISO 9239.1:2013

CRF 8 kW/m²

Smoke development rate 400%/minute

VOC ASTM D3960

27 g / Litre. Conforms to Green Start Design & As Built and Interiors

Chemical Resistance

Good

- | | |
|-------------------------|-----------------|
| ■ Ethanol | ■ Caustic Soda |
| ■ 5% Acetic Acid | ■ Beer & Sprits |
| ■ 10% Hydrochloric Acid | ■ Hydrocarbons |
| ■ 40% Sulphuric Acid | |

The chemicals listed above are examples only and are based on ambient temperature, non-immersion exposure conditions.

Contact A&I Coatings for further information, including advice on chemicals not listed.

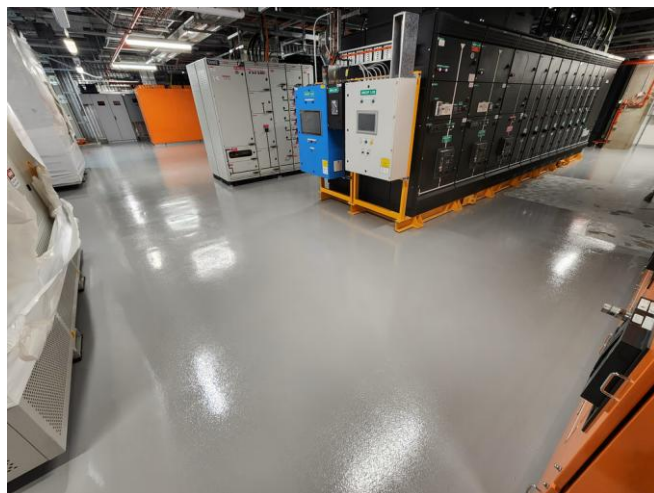
Aesthetic staining may occur and is not considered a product failure.

Spills and splashes should be cleaned and removed

within 24 hours.

Feature & Benefits

- Variable slip-resistant profiles from P2–P4 in accordance with AS 4586:2013
- Silica Free
- Economical and well suited for large areas due to low application film thickness
- Dust suppression
- Easy to clean
- Light reflective
- Suitable for pedestrian, vehicle and forklift traffic
- Good chemical resistance
- Roller Applied
- Seamless finish
- Easy Installation
- Low VOC



Typical Uses

- EPA Zones
- AGV Traffic
- Chemical Storage
- Data Centres
- Aircraft Hangars
- Defence Facilities
- Electronic Industries
- Aerosol Production Facilities

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Preparation and Substrate Requirement

- Suitable substrates include concrete, compressed fibre cement and mineral-based substrates
- Substrate must have a minimum compressive strength of 25 MPa and tensile bond strength of 1.5 MPa.
- Substrate must be free from rising moisture and have an effective damp proof membrane beneath.
- Substrate moisture content must be below 4.5% by weight when tested in accordance with ASTM F2659
- Surface must be sound, dry and free from loose material, laitance, old coatings, dust and surface contaminants, including oil, grease, chemicals, release agents and curing compounds.
- Concrete must be suitably prepared to ensure good coating adhesion. This can be achieved by diamond grinding or shot blasting to a minimum ICRI CSP 2 surface profile.
- Remove all loose material by industrial vacuum cleaning.

Application Conditions

- Substrate surface temperature must be at least 3°C above the dew point during application and initial cure.
- Ambient and substrate temperatures should be between 10°C and 35°C during application and curing.
- Relative humidity must be below 85% during application and initial cure.

Curing Time

- Pedestrian Traffic: 24 Hours at 20°C
- Vehicle Traffic: 72 Hours at 20°C
- Full cure: 7 days at 20°C
- Ensure no water contact for at least 5 days at 20°C
- Curing times are subject to change depending on ambient temperature

For Specifier

Specify:

"Floor System to be Endurafloor RC ESD as manufactured by A&I Coatings P/L."

Options	Thickness	Slip Rating	Colour	Finish
	Roll coats	P2 – P4	Nest Grey / Lunar Grey	Gloss

Standard Colours:



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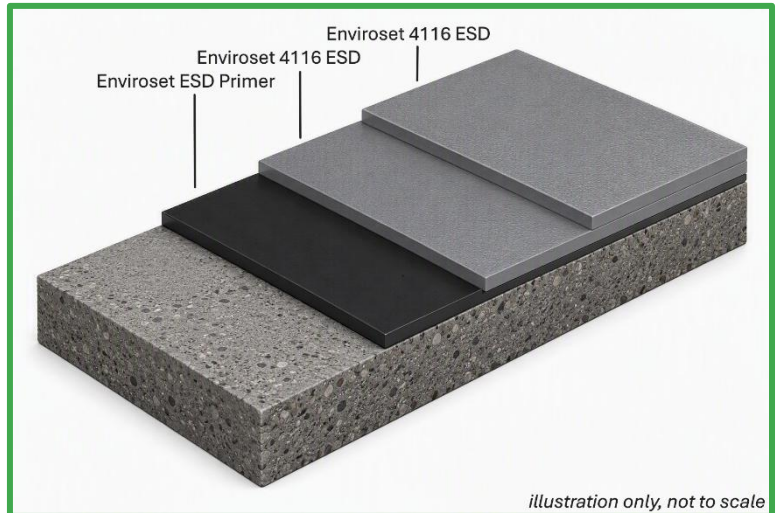
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System Build Up

Refer to individual Technical Data Sheet for detailed product information

- Apply Enviroset ESD Primer 100 at 6 – 7 m²/L by roller.
- Apply Enviroset 4116 ESD at 6 – 7 m²/L by roller.
- Apply Enviroset 4116 ESD at 6 – 7 m²/L by roller.
- Incorporate appropriate aggregate where slip resistance of P2 – P4 is required. Contact A&I Coatings for further information.
- Recoat windows must be followed according to the relevant product TDS.
- If the recoat window is exceeded, mechanically abrade the surface before recoating.



Important Note

- If there is any doubt regarding substrate suitability, conduct a site test before application.
- Do not apply over substrates with rising damp or hydrostatic pressure.
- Expansion joints must be reflected through the system and filled with a flexible joint sealer after system application.
- Dynamic crack movement may transfer through the floor system and may result in a visible cracking at the surface.
- For consistent colour, ensure the colour is from the same batch throughout the project.
- Coverage rates are approximate and may vary depending on substrate condition, surface profile, application method and site conditions. Conduct site tests to verify actual coverage.
- Do not expose the system to chemicals, heavy traffic or wash-down until full cure has been achieved.
- Provide a minimum of two grounding points per room and one grounding point for every 100 m² of floor area, with grounding points spaced no more than 10 metres apart and connected to a suitable building earth.
- Users must read the Safety Data Sheet for each product used in the system and familiarise themselves with all safety, handling and personal protective equipment requirements before use.