

ENDURAFLOOR SR

SYSTEM DATA SHEET

2mm, 4-5mm & 7-9mm solvent free epoxy for textured, heavy duty and slip resistant system.



Technical Snapshot

Compressive Strength

> 50 MPa

Bond Strength to Concrete

> 1.5 MPa

Abrasion Resistance ASTM D4060

60mg / 500 cycles CS17 1kg

Fire Resistance AS ISO 9239.1:2013

CRF 7.4 kW/m²

Smoke development Rate 269%/minute

VOC ASTM D3960

27 g / Litre

Chemical Resistance

Good

- | | |
|------------------------|-------------------|
| ■ 10% Sodium Hydroxide | ■ Motor Oil |
| ■ 5% Acetic Acid | ■ Diesel |
| ■ 40% Sulphuric Acid | ■ Hydraulic Fluid |
| ■ Hydrocarbon Solvent | ■ Grease |
| ■ Jet Fuel / Skydrol | ■ Brake Fluid |

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 P4-5 ratings according to AS4586:2013 | ■ Suitable for pedestrian, vehicle and forklift traffic |
| ■ Resurfacing worn and damaged floors | ■ Good chemical resistance |
| ■ High Abrasion resistance | ■ UV resistance option available |
| ■ Light reflective | ■ Wide colour range |
| ■ Low VOC | ■ Seamless finish |



Typical Uses

- | | |
|-------------------------------|---------------------|
| ■ Food & Beverage | ■ Stadium Concourse |
| ■ Schools & Universities | ■ Port & Marine |
| ■ Veterinary Clinic | ■ Loading Dock |
| ■ Production Facility | ■ Washdown Area |
| ■ Automotive Workshop | ■ Pool surrounds |
| ■ Engineering Workshop | ■ Mining |
| ■ Hospitality – Back of house | ■ Plant Room |

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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 2-3 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 5°C and 35°C during application and curing.
- Relative humidity must be below 85% during application and initial cure.

Curing Time

- Pedestrian Traffic: 6 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 SR as manufactured by A&I Coatings P/L."

Options	Thickness	Slip Rating	Colour	Finish
	2mm, 4-5mm or 7-9mm	P4-P5	Choose from standard colour or any AS 2700 colour	Gloss Textured

Standard Colours:



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System Build Up

Refer to individual Technical Data sheet for detailed product information

2 mm system:

- Apply Enviroset 4116 at 1mm using a V notched squeegee. Whilst wet, fully broadcast the surface with kiln dried aggregate at 3-4 kg/m² to refusal.

4 – 5 mm system:

- Apply Enviroset 4116 at 2mm using a pin rake or trowel then spike roll. Extend each 10L Kits of Enviroset 4116 with 9 kg of Sand TN for coverage of 6.7m² at 2mm. Whilst wet, fully broadcast surface with kiln dried aggregate at 5-6 kg/m² to refusal.

7 – 9 mm system:

- Contact A&I Coatings for specific system details.
- Broadcast aggregate size is 30/60 or 18/40 depending on the required slip resistance rating.
- After the base layer has cured, sweep and vacuum all excess aggregate.
- Apply 2 coats of Enviroset 4110, Enviroset 4113 or Enviroset 4116 at the following rate:
- Aggregate 30/60
 - 1st Coat: 3 m²/L
 - 2nd Coat: 6-7 m²/L
- Aggregate 18/40
 - 1st Coat: 2.5 m²/L
 - 2nd Coat: 5-6 m²/L
- UV resistance can be achieved by applying Vitrethane 633 at 7-8 m²/L
- Slip resistance will be affected by aggregate size and film build up from topcoats.
- Ensure aggregate profile is not overfilled.
- 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.

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- 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.
- 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.