

Endurafloor VE SR

SYSTEM DATA SHEET

2mm medium and 5mm heavy duty, slip and chemical resistance epoxy vinyl ester flooring systems



Technical Snapshot

Shore D Hardness

85

Compressive Strength

> 50 MPa

Bond Strength to Concrete

> 1.5 MPa

Abrasion Resistance ASTM D4060

60mg / 500 cycles, CS17, 1kg

Chemical Resistance

Excellent

- | | |
|-------------------------|---------------------------|
| ▪ 100% Acetic Acid | ▪ 100% Sodium Carbonate |
| ▪ 20% Hydrofluoric Acid | ▪ 50% Sodium Hydroxide |
| ▪ 40% Nitric Acid | ▪ 30% Ammonium Hydroxide |
| ▪ 80% Sulfuric Acid | ▪ 17% Sodium Hypochlorite |
| ▪ 100% Phosphoric Acid | ▪ Transformer Oil |

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–P5 in accordance with AS 4586:2013
- Resurfacing worn and damaged floor
- Good abrasion resistance
- Suitable for pedestrian, vehicular and forklift traffic
- Excellent chemical resistance
- Seamless finish



Typical Uses

- Secondary containment protection
- Heavy industry floor coatings system, where high chemical exposure is expected
- Mining Industry / Process
- Chemical storage

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Preparation and Substrate Requirement

- Suitable substrates are concrete and mineral based substrates
- Substrate must have a minimum compressive strength of 25 MPa and tensile 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% pbw 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 keyed to ensure good coating adhesion. This can be achieved by diamond grinding or shot blasting to a minimum ICRI CSP 3 profile.
- Remove all loose matter through vacuum cleaning
- Concrete must have 6 mm x 6 mm anchorage saw cuts installed at perimeters, around drains, penetrations and all termination points. Saw cuts must also be installed on either side of construction joints. Wherever daily installation ends, install a saw cut 40mm back from termination point.

Application Conditions

- Environmental temperature between 5-30°C
- Environmental humidity must be less than 85% Relative Humidity

Curing Time

- Pedestrian Traffic: 6 Hours at 20°C
- Full cure: 7 days at 20°C
- Vehicle Traffic: 72 Hours at 20°C
- Curing times are subject to change depending on ambient temperature
- Forced airflow must be present during application and curing

For Specifier

Specify:

“Floor System to be Endurafloor VE SR as manufactured by A&I Coatings P/L.”

Options	Thickness	Slip Rating	Colour	Finish
	2mm or 5mm	P4-P5	N35 Light Grey, N43 Pipeline Grey, N45 Koala Grey, N53 Blue Grey, R53 Red Gum	Satin Broadcast Finish

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System Build Up

Refer to individual Technical Data Sheet for detailed product information

2 mm system:

- Primer layer of Enviroset VE primer at 0.35kg/m² and whilst wet lightly broadcast surface with kiln dried aggregate 18/40 at 0.2kg/m².
- Base layer of Enviroset VE2 at 0.4kg/m² and whilst wet fully broadcast surface with 1mm kiln dried aggregate at 3kg/m² to refusal.
- Sweep and vacuum excess aggregate once walkable and cured.
- Apply Enviroset VE2 at 2 m²/L by roller.
- Apply Enviroset VE2 with 2% Wax in styrene at 5 m²/L by roller.

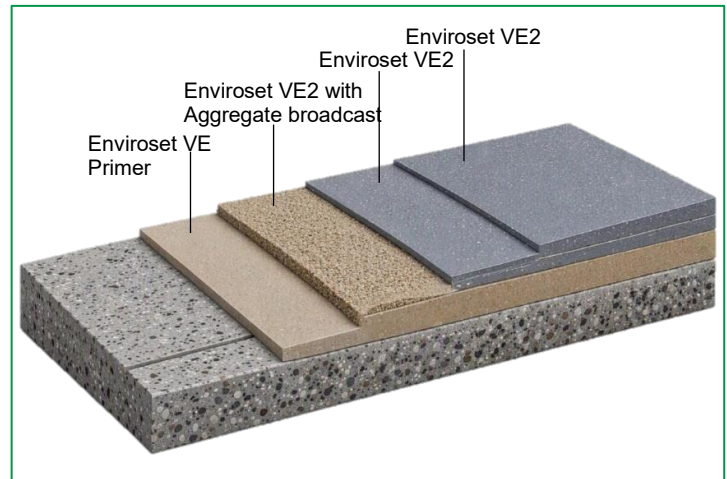


Illustration only, not to scale

5 mm system

- Primer layer of Enviroset VE primer at 0.35kg/m² and whilst wet lightly broadcast surface with kiln dried aggregate 18/40 at 0.2kg/m².
- Base layer at 3mm via notched trowel or gauge rake and spike roll of Enviroset VE2 extended 2-part kiln dried aggregate to 1-part Enviroset VE2 by weight. Whilst wet fully broadcast surface with 1mm kiln dried aggregate at 5-6kg/m² to refusal.
- Sweep and vacuum excess aggregate once walkable and cured.
- Apply Enviroset VE2 at 2 m²/L by roller.
- Apply Enviroset VE2 with 2% Wax in styrene at 5 m²/L by roller.
- Once the final coat containing wax in styrene has cured, any further coats will have poor adhesion unless mechanical abrasion is carried out and all wax is removed.

Important Note

- If there is any doubt regarding substrate suitability, a site test is recommended.
- 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 result in a visible crack on the surface.
- For consistent colouration, ensure the colour is from the same batch throughout the project.
- Coverage rates listed above may vary depending on the quality and profile of the substrate. 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.
- Ensure adequate ventilation during application and curing.
- Users must read the Safety Data Sheet for each product used in the system and familiarise themselves with all safety and personal protective equipment requirements before use.