

ENDURAFLOOR WB

SYSTEM DATA SHEET

Water based epoxy coating meeting green star requirement



Technical Snapshot

Shore D Hardness

69

Bond Strength to Concrete

> 1.5 MPa

Fire Resistance AS ISO 9239.1:2013

CRF 12.4 kW/m²

Smoke development rate 0%/minute

VOC ASTM D3960

23 g / Litre. Conforms to Green Star Design & As Built and Interiors

Water Vapor Transmission ASTM E96

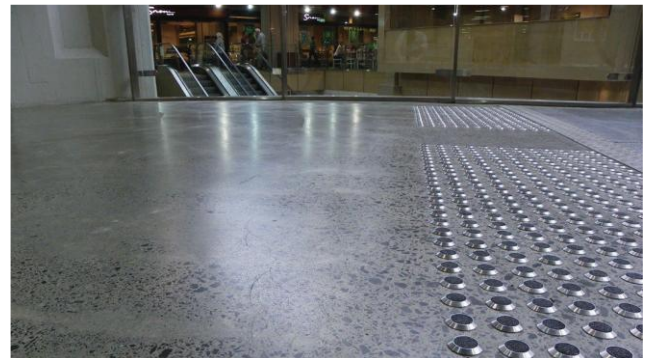
26.94 g/m².Day @ 140-micron thickness

Water Vapor Permeance ASTM E96

0.4183 g/m².Pa.Hour at 140-micron thickness

Feature & Benefits

- Variable slip-resistant profiles from P1–P4 in accordance with AS 4586:2013
- User friendly, easy application by spray, brush or roller
- Economical and well suited for large areas
- Satin or Gloss Clear finish
- Easy to clean
- Low odour
- Self Priming
- Suitable for pedestrian, trolley and rubber wheeled vehicular traffic
- APAS Approved Enviroset 2100
- Allow transmission of moisture vapour* Coloured version only
- Wide colour range Satin Only
- Seamless finish
- Low VOC
- Light reflective



Typical Uses

- Retail Outlets
- Commercial Offices
- Warehouses
- Studios
- Museums
- Galleries
- Back of house Facilities
- Supermarkets
- Storage Facilities
- Amenities
- Education Facilities
- Walkways & Footpaths
- Internal Walls

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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 for Clear Gloss, or below 6% by weight for Coloured Satin.
- 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: 48 Hours at 20°C & 60% RH
- Vehicle Traffic: 5 days at 20°C & 60% RH
- Full cure: 7 days at 20°C & 60% RH
- Ensure no water contact for at least 5 days at 20°C & 60% RH
- Curing times are subject to change depending on ambient temperature
- Good airflow must be present during application and curing

For Specifier

Specify:

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

Options	Thickness	Slip Rating	Colour	Finish
	Roll Coat	P1 – P4	Choose from standard colours or any AS 2700 colour	Gloss (Clear Only) Satin

Standard Colours:



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System Build Up

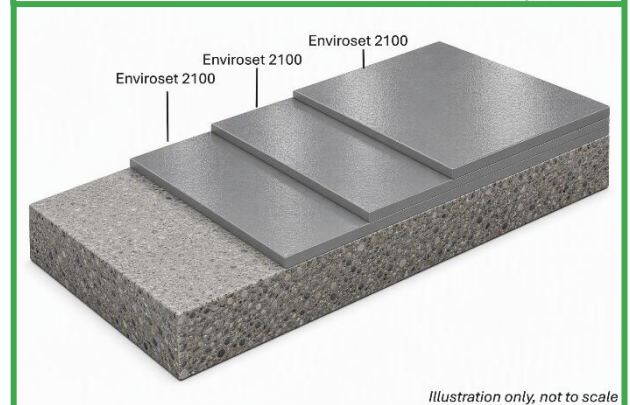
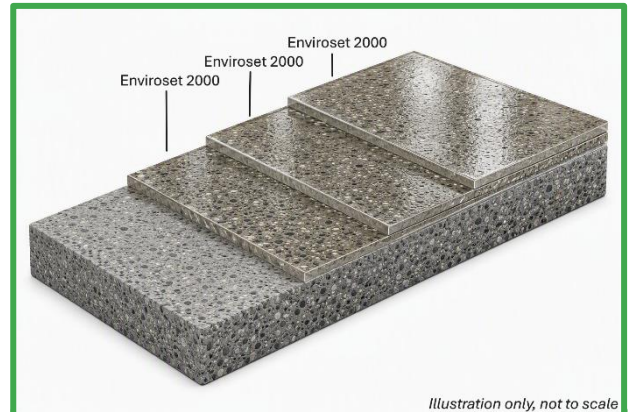
Refer to individual Technical Data Sheet for detailed product information

Clear system Enviroset 2000 (Satin / Gloss):

- Apply 2 – 3 coats of Enviroset 2000 at 7 – 8 m²/L per coat depending on substrate absorbency.
- For Satin finish, 1st coat of Enviroset 2100 must be applied using gloss version.

Coloured system Enviroset 2100 (Satin Only):

- Apply 2 – 3 coats of Enviroset 2100 at 7 – 8 m²/L per coat depending on substrate absorbency.
- Slip resistance grit can be included to achieve slip ratings as 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.
- 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.
- As this is a water-based system, humidity is an important factor in product curing. Ensure relative humidity is below 85% and maintain good airflow during application and curing. Application outside these parameters may result in an uneven appearance of the cured film.