

ENDURADECK HD

SYSTEM DATA SHEET

Heavy duty slip resistant car park deck coating



Technical Snapshot

Shore D Hardness

85

Bond Strength to Concrete

> 1.5 MPa

Abrasion Resistance ASTM D4060

55mg / 500 cycles, CS17, 1kg

Fire Resistance AS ISO 9239.1:2013

CRF 10 kW/m²

Smoke development rate 450%/minute

VOC ASTM D3960

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

Chemical Resistance

Good

- | | |
|-----------------------|-------------------|
| ▪ Brake Fluid | ▪ Motor Oil |
| ▪ 40% Sulphuric Acid | ▪ Diesel |
| ▪ Hydrocarbon Solvent | ▪ Hydraulic Fluid |
| ▪ Grease | |

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 P3–P5 in accordance with AS 4586:2013
- UV Stable and suitable for external use
- High abrasion resistance
- Reduces tyre squeal
- Easy to clean
- Light reflective
- Suitable for pedestrian, vehicle and forklift traffic
- Good chemical resistance
- Resurfacing worn and damaged floor
- Wide colour range
- Seamless finish
- Low VOC



Typical Uses

- Internal and external carpark decks
- Entry and Exit point to carparks where heaviest wear occurs
- Commercial driveway
- Helipads
- Turing areas within carpark
- Used in conjunction with Enduradeck SD to deliver cost effective carpark deck system
- Carpark Ramps

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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 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 Enduradeck HD as manufactured by A&I Coatings P/L.”

Options	Thickness	Slip Rating	Colour	Finish
	2 mm	P3 – P5	Choose from standard colour or any AS 2700 colour	Gloss Satin

Standard Colours:



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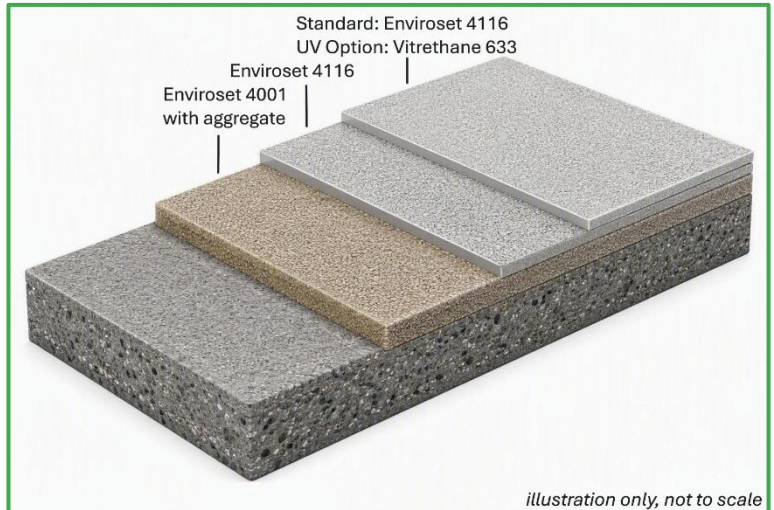
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System Build Up

Refer to individual Technical Data Sheet for detailed product information

- Apply Enviroset 4001 at 4 m²/L. Whilst wet, fully broadcast the surface with 800 – 900 micron quartz aggregate at 2 kg/m² to refusal.
- After the base layer has cured, sweep and vacuum all excess aggregate
- Apply 1 coat of Enviroset 4116 at 2 – 2.5 m²/L.
- Apply 1 coat of Enviroset 4116 at 6 – 7 m²/L or Apply 1 coat of Vitrethane 633 at 6 – 7 m²/L for UV stable finish.
- Ensure aggregate profile is not overfilled.
- Slip resistance rating can be altered pending size of aggregate used. 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.