

ENDUR FLOOR SR

SYSTEM DATA SHEET

Solvent free epoxy system for textured, heavy-duty applications
Slip resistant versions available at 2mm, 4-5mm or 7-9mm



TECHNICAL SNAPSHOT



COMPRESSIVE STRENGTH

<50Mpa



ABRASION RESISTANCE

Excellent



BOND STRENGTH TO CONCRETE

>1.5Mpa



DRY HEAT RESISTANCE

120°C



VOC

27grams/Litre, conforms to Green Star Design



CHEMICAL RESISTANCE

Good - The following chemicals are an example only, based on ambient temperature exposure. Consult A&I for further information and any chemicals not listed below.

- Sodium Hydroxide 10% in H2O
- Grease
- Motor Oil
- Acetic acid 5%
- Brake Fluid
- Diesel
- Skydrol
- Hydrocarbon Solvents
- Sulphuric acid 40%

Note: aesthetic staining is not classed as failure. Spills and splashes should be cleaned and removed within 24hrs

FEATURES & BENEFITS

- Variable slip resistant profiles from P3 – P5 ratings according to AS4586 2013
- UV resistant options available
- High chemical resistance
- Unlimited colour range
- Suitable for pedestrian, vehicle and forklift traffic
- Extremely high abrasion resistance
- Low VOC
- Excellent impact resistance
- Resurfacing worn and damaged floors
- Light reflective
- Seamless Finish
- Easy clean



TYPICAL USES

- Food and Beverage
- Stadiums
- Hospitality
- Port & Marine
- Automotive/engineering workshops
- Defence Facilities
- Loading docks
- Mining
- Aquatic environments
- Veterinary clinics
- Back of house
- Schools, Tafes & Universities
- Production zones
- Washdown areas

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PREP AND SUBSTRATE REQUIREMENTS

- Suitable substrates are concrete, CFC and mineral based substrates
- Substrate to be minimum of 25Mpa compressive strength and 1.5Mpa tensile strength
- Substrate must be free of rising moisture and must have an effective damp proof membrane beneath
- Substrate moisture content must be below 4% pbw
- Surface must be sound, dry, free from all loose material, laitance, old coatings, dust and surface contaminants (e.g. oil, grease, chemicals, release/curing agents etc.)
- Concrete must be suitably keyed to ensure good coating adhesion. This can be achieved by diamond grinding or shot blasting to minimum ICRI CSP 2-3
- Remove all loose matter through vacuum cleaning

ATMOSPHERIC REQUIREMENTS

- Substrate surface temperature to be 3oC above dew point during installation and initial set
- Application temperature between 10 – 30oC
- Below 85% RH

SYSTEM BUILD UP refer to individual product sheets for detailed product information.

APPLICATION:

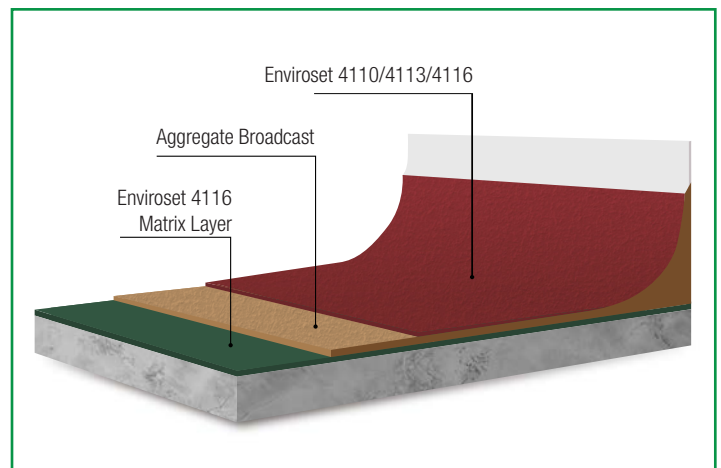
- 2mm finish - Apply Enviroset 4116 at 1mm thick using a V notched squeegee. Whilst wet, broadcast kiln dried aggregate into the 1mm base at a coverage rate of approximately 3-4kg per m2. Broadcast should be to refusal.
- 4-5mm finish - For the 4-5mm finish apply base layer of E4116 at 2mm using a pin rake/trowel/spike roller. The 10L kit of E4116 is extended with 9kg of fine 50n sand. This will cover 6.7m2 at 2mm.

Broadcast kiln dried aggregate into the 2mm base at a coverage rate of approximately 5-6kg per m2. Broadcast should be to refusal.

- 7-9mm finish - For the 7-9mm finish apply base layer of E4116 at 6 to 7mm. Contact A&I Coatings for specific details.

Broadcast kiln dried aggregate into the wet 6-7mm base at a coverage rate of approximately 4-5kg per m2. Broadcast should be to refusal. Contact A&I for further details.

- Required broadcast aggregate size 30/60 or 18/40 depending on slip resistance required. Speak to A&I Coatings for further information.
- Upon curing, sweep and vacuum all excess aggregate.



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APPLICATION:

- Apply 1 – 2 topcoats of Enviroset 4110/4113/4116 at a coverage rate of approx:
30/60 sand 1st coat: 3m²/L
30/60 sand 2nd coat: 6-8m²/L
18/40 sand 1st coat: 2.5m²/L
18/40 sand 2nd coat: 5-7m²/L
Slip resistance will be affected by aggregate size and film builds of the roll coats. Ensure aggregate profile is not overfilled.
- If UV resistance is required apply Vitrethane 633 (satin) or Vitrethane 638 (gloss) at 7-8m²/L
Follow directives and installation instructions and intercoat timelines as listed in each TDS.

CURING TIMES

- Pedestrian traffic: 24hrs at 22oC
- Vehicle Traffic: 72hrs at 22oC
- Full cure: 7 days at 22oC
- Curing times are subject to change depending on the ambient temperature
- Ensure no water contact for at least 5 days.

FOR SPECIFIERS

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	Select from P3 – P5 as required	Choose from standard colours or any AS 2700 Colour	Gloss

STANDARD COLOURS:



IMPORTANT NOTES

- For consistent colouration, ensure the colour is from the same batch over the course of the project.
- Any expansion joints must be reflected through the system and filled with a flexible joint sealer after system application.
- Any dynamic crack movement may transfer through the floor system and result in a visual crack on the surface.
- Certain colours such as whites, bright colours may require additional coats to achieve coverage. Consult with A&I for further information.
- The coverage rates listed above on this system data sheet can vary depending on the quality of the substrate. Conduct site tests to verify.
- If any doubts exist on the suitability of the substrate, it is recommended a site test be conducted.