ENDURAFLOOR SR

SYSTEM DATA SHEET

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

A&I COATINGS

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 H20
- Motor Oil
- Brake Fluid
- Skydrol
- Sulphuric acid 40%
- Grease
- Acetic acid 5%
- Diesel
- Hydrocarbon Solvents

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
- Unlimited colour range
- Extremely high abrasion resistance
- Excellent impact resistance
- Light reflective
- Easy clean
- UV resistant options available
- High chemical resistance
- Suitable for pedestrian, vehicle and forklift traffic
- Low VOC
- Resurfacing worn and damaged floors.
- Seamless Finish

TYPICAL USES

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

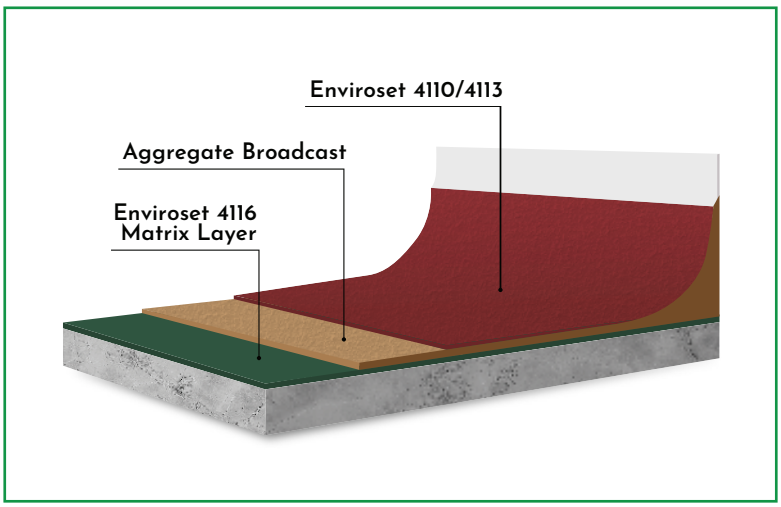
- Substrate surface temperature to be 3ºC above dew point during installation and initial set
- Below 85% RH
- Application temperature between 10 – 30ºC

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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A&I COATINGS

APPLICATION:

- Apply 1 – 2 topcoats of Enviroset 4110/4113 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 22°C
- Vehicle Traffic: 72hrs at 22°C
- Full cure: 7 days at 22°C
- Curing times are subject to change depending on the ambient temperature
- Ensure no water contact for at least 5 days.

FOR SPECIFIERS

SPECIFY:

"Floor coating system to be Endurafloor SR as supplied by A&I Coatings PTY LTD"

	Thickness	Slip Rating	Colour	Finish
OPTIONS	2mm, 4-5mm or 7-9mm	Select from P3 – P5 as required	Choose from standard colours or any AS 2700 Colour	Satin or 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.