

ENDUR FLOOR SL BIO

SYSTEM DATA SHEET

Heavy duty solvent free epoxy topping. Can be finished smooth or with fine textured finish. Finished from 2-4mm
Reduced Carbon Footprint



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



FIRE RESISTANCE

(kWm2)=> 11



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 P2—P4 ratings according to AS4586 2013
- Low VOC
- Unlimited colour range
- Good impact resistance
- Easy clean
- Good abrasion resistance
- High chemical resistance
- Can be rendered UV stable if required
- Suitable for pedestrian, vehicular and forklift traffic
- Light reflective
- Seamless Finish

Products within this system use waste cooking oil and biofuel waste matter to produce epoxy resin. This replaces a proportion of the fossil fuels that would otherwise be required. (Contact A&I for specific % of Biomatter used within system)



TYPICAL USES

- Laboratories
- Workshops
- Defence
- Loading Docks
- Educational
- Mining
- Resurfacing worn floors
- Port and Marine
- Studios
- Restaurants
- Flat floor requirements
- Pharmaceuticals
- Process areas (with textured finish)
- Hospitals
- Aircraft Hangers

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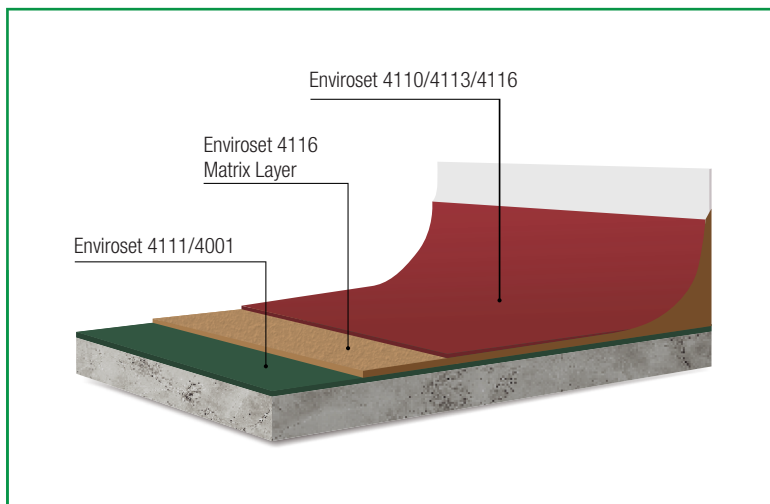
PREP AND SUBSTRATE REQUIREMENTS

- Suitable substrates are concrete, CFC and mineral based substrates.
- Substrate to be min 25Mpa compressive strength and 1.5Mpa pull off value.
- Substrate must be free of rising moisture and must have an effective damp proof membrane. 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 to minimum ICRI CSP 2.
- Remove all loose matter through vacuum cleaning.

ATMOSPHERIC REQUIREMENTS

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

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



APPLICATION:

- Primer: Enviroset 4111/4001 applied by roller at @5-6m²/Litre. (If the finished system will be smooth, apply a second coat of Primer at the same coverage rate.)
- Apply Enviroset 4116 at desired thickness - 2, 3 or 4mm. 2mm self-smoothing layer: One 10L kit extended with 9kg of 50N sand will cover approximately 6.7m²
3mm self-smoothing layer: One 10L kit extended with 9kg of 50N sand will cover approximately 4.5m².
4mm self-smoothing layer: One 10L kit extended with 9kg of 50N sand will cover approximately 3.3m².

- 3/ If a fine textured finish is required apply final coat Enviroset 4110/4113/4116 at 7m²/litre with inclusion of aluminium oxide aggregate.

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.

Slip resistant grit can be included to achieve slip ratings as desired - contact A&I coatings for further information.

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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 SL BIO as supplied by A&I Coatings PTY LTD”

OPTIONS	Slip Rating	Colour	Thickness	Finish
	Select from P2 – P4 as required	Choose from standard colours or any AS 2700 Colour	Either 2, 3 or 4mm	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.