ENDURAFLOOR RC ESD

SYSTEM DATA SHEET

Heavy duty solvent free electrostatic dissipative epoxy

A&I COATINGS

TECHNICAL SNAPSHOT

HARDNESS
Shore D >75

ELECTRICAL RESISTANCE
<10^9 Ohms RG, IEC 61340-4-1

BOND STRENGTH TO CONCRETE
>1.5Mpa

DRY HEAT RESISTANCE
120°C

VOC
<100grams/Litre, conforms to Green Star Design

FIRE RESISTANCE
(kWm2)=> 11

SMOKE VALUE %
4

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
- Grease
- Acetic acid 5%
- Diesel
- Hydrocarbon Solvents

FEATURES & BENEFITS

- Silica free system
- BIO epoxy-uses recycled oils and BIO fuel waste.
- Easy clean
- High chemical resistance
- Suitable for pedestrian, vehicular and forklift traffic
- Low VOC
- Critical radiant flux certified
- Economic and well suited for large areas
- Easy installation
- Light reflectivity
- Seamless Finish

TYPICAL USES

- EPA zones
- AGV traffic
- Chemical storage
- Aircraft Hangars
- Defence Facilities
- Electronic Industries
- Aerosol production facilities
- Chemical storage
- Data centres

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

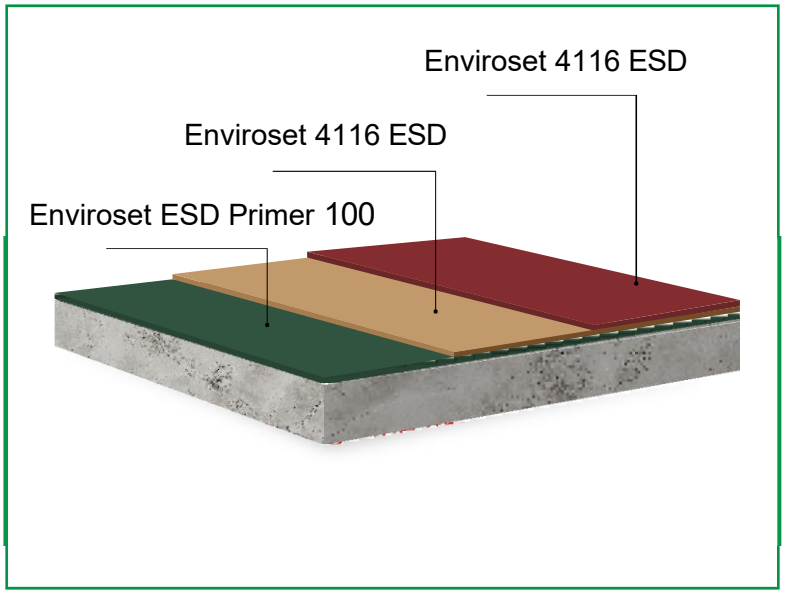
PREP AND SUBSTRATE REQUIREMENTS

- 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:

Application by roller as a 3coat system as follows

- 1st Coat - Enviroset ESD Primer 100 at 6-7m2/L
- 2nd Coat - Enviroset 4116 ESD at 6-7m2/L
- 3rd Coat if required Enviroset 4116 ESD at 6-7m2/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 RC ESD as supplied by A&I Coatings PTY LTD"

	Slip Rating	Colour	Finish
OPTIONS	Select from P2 – P5	2 standard colours.	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.
- The coverage rates listed above on this system data sheet can vary depending on the quality of the substrate. Conduct site tests to verify.
- Proper ESD footwear or straps to equipment must be used to ensure proper grounding and dissipation of electric charge to earth points.
- This system requires earthing points to be installed at a minimum of 2 per room and every 100m2 surface area. No earthing points to be more than 10 metres apart. Consult A&I Coatings for project specific instructions. Consideration is to be given to separate floor slabs and movement joints, incorporating correct detailing to ensure electrical continuity.