

ENVIROSET 4116 ESD

TECHNICAL DATA SHEET

Electrostatic Dissipative Solvent Free Epoxy



A & I Coatings ENVIROSET 4116 ESD is a two-pack electrostatic dissipative pigmented, solvent free, 100% solids epoxy with excellent surface hardness and adhesion. It exhibits high water resistance, chemical and oil resistance.

USES & BENEFITS	Uses	
	• In Electrostatic protected areas – AGV movements Aerosil, Electronics, and Defence industries.	
	Benefits	Limitations
PHYSICAL PROPERTIES	1. Exceptionally hard wearing	1. Amine bloom may occur if humidity is above 80%.
	2. Easy mix ratio	2. Minimum surface temperature should be at least 3°C above dew point at time of application and initial cure.
	3. Excellent flow properties.	3. This product will chalk when continuously exposed to sunlight.
	4. Light reflective	
	5. Easy to clean	
	6. Silica Free	
	7. Manufactured from Bio source and renewables	
	Vehicle Type	Epoxy
	Hardener	Amine
	Mixing Ratio	3:1(Part A : Part B) by Volume
	Pot Life	Approx 25 minutes @25°C using standard hardener.
	Finish	Gloss
	Theoretical Coverage	5-7 m2/Litre per coat
	Volume Solids	100%
ENGINEERING DATA	Usual No. of Coats	2
	Primer Required	Must be primed with Enviroset ESD Primer 100
	Colour	8 standard colours
	Pigmentation	Titanium dioxide and other pigments
	Product Weight	1.45 Kg/Litre
	Abrasion Resistance	Very good
	Chemical Resistance	Check with A&I Coatings for specific data
	Electrical resistance:	RG <10 ⁹ IEC 61340-5-1
	Dry Heat Resistance	Up to 120°C
	Hot water resistance	Up to 70°C
	Durability	Excellent, but will chalk under UV exposure without damage to the integrity of the coating.

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CURING DATA	Substrate Temp.(°C)	Foot Traffic	Vehicular Traffic	Full Cure	Recoat Time min
	25 °C	24 Hrs	72 Hrs	7 Days	12 Hrs
	Note: When overcoating with an epoxy-based topcoat, this should occur within 36hrs at 25°C. No water or condensation should contact the coating for 5 days from installation.				
SURFACE PREPARATION	Concrete	Allow new concrete to cure for minimum 28 days prior to coating. 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). Substrates must be mechanically treated by abrasive blasting or grinding to achieve a clean anchor pattern for best adhesion. Oily surfaces must be detergent cleaned, and water blasted. Please note that moisture content in the concrete must be no greater than 4% pbw prior to application of the E4116 ESD. Ensure no rising moisture will occur in concrete by means of an effective subgrade damp proof membrane. Concrete to be min 25Mpa compressive strength and 1.5Mpa pull off strength.			
APPLICATION DATA			Power stir Pack A, then blend with Pack B to correct ratio. Power stir thoroughly for two minutes prior to use. Only mix required amount and use within the stated pot life.		
	Application	Roll coat: 10-13mm Nap Roller.			
	Ambient Temperature	Apply between 8-35 °C			
	Thinning	Thinning is not permitted.			
	Cleaning	Use Xylene or Acetone for clean-up.			
PACKING & STORAGE	Packing	Available in 16 Litre kits			
	Storage	12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter.			

All applicable statutory regulations must be observed in the application of this product. Users must first read the Safety Data Sheet for ENVIROSET 4116. ESD. Users should familiarize themselves with all the safety aspects of the product prior to use.

Please ensure the current Technical Data Sheet is consulted prior to specification or application of A & I Coatings products. A & I Coatings will in many instances provide Area Specific Instruction Sheets which contain detailed instructions on how to achieve desired results for specific areas. If the surface intended to be painted differs from the specification, please consult the A & I Coatings Technical team on 1800 819 585.

All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation. Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on onsite conditions, such as volume of material mixed, ambient and substrate temperatures, weather and ventilation. DISCLAIMER Since the use and application of this product is beyond our control, we cannot be held responsible for product field performance. The information presented above is the result of our considerable experience with this product but is not to be construed as a performance warranty. For additional information, phone our Customer Service Centre on 1800 819 585, or e-mail helpdesk@aicoatings.com Visit our website for more products: www.aicoatings.com



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