Enviroset 4116 ESD

TECHNICAL DATA SHEET

Electrostatic Dissipative Solvent Free Epoxy

A & I Coatings **ENVIROSET 4116 ESD** is a 2 component electrostatic dissipative pigmented, solvent free, 100% solids epoxy with excellent surface hardness and chemical resistance.

USES & BENEFITS	• Electrostatic protected areas • Data Centres • Electronics Industries • Military Facilities				
	Benefits • Variable slip resistance can be achieved. • Simple installation and cost effective. • Using Nano technologies. • Silica Free. • Exceptionally hard wearing. • Easy to clean and light reflective. • Low VOC / Greenstar compliant.				
PROPERTIES	Vehicle Type	100% Solid Solvent Free Epoxy			
	Primer Required	Enviroset ESD Primer 100			
	Mix Ratio	3:1 by Volume			
	Pot Life	Approx 25 minutes @ 25°C using standard hardener.			
	Usual No. of Coats	2 coats.			
	Theoretical Coverage	Roll Coat: 6 – 7 m^2/L @ 140 – 170 µm DFT per coat.			
	Colour	Light Grey			
	Finish	Gloss			
	Volume Solids	100%			
	Density	1.4 kg/L			
	Electrical Resistance to Ground	< 10^9 Ω (IEC 61340-4-1)			
	Chemical Resistance	Good Contact A&I Coatings for further information			
	Application Conditions	8 – 35°C Substrate surface temperature must be at least 3°C above the dew point during application and initial cure.			
Curing Data	Substrate Temperature	Recoat time (Hours)	Foot Traffic (Hours)	Vehicle Traffic (Days)	Full Cure (Days)
	25°C	12	24	3	7
	The maximum recoat time is 36 hours at 25°C. If the maximum recoat time is exceeded, mechanical abrasion must be carried out to ensure a good mechanical bond. No water or condensation should contact the coating for 5 days from installation.				
MECHANICAL PROPERTIES	**Property**			**Test Method**	
	Abrasion Resistance	60mg / 500 Cycles CS17 1kg		ASTM D4060	
	Shore D Hardness	75		ASTM D2240	
	Critical Radiant Flux	7 kW/m^2		AS/ISO 9239.1.	

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	Smoke Development Rate	300%. Minutes	AS/ISO 9239.1.
SURFACE PREPARATION	Enviroset 4116 ESD must be applied on Enviroset ESD Primer 100. Refer to Enviroset ESD Primer 100 Technical data sheet for surface preparation requirements.		
APPLICATION DATA	Mixing	Pre-mix Part A for one minute, then add Part B at 3:1 by volume, and mechanical mix for two minutes. Only mix the required amount and use within the stated pot life.	
	Application	Apply by roller or brush. Thinning with a maximum of 3% by volume of methylated sprits or Vitrethane 104.	
	Cleaning	Clean tools and equipment using Vitrethane 104.	
PACKAGING & STORAGE	Packaging	Available in 10 L Pre-Tinted Kits. (Part A: 7.5L, Part B: 2.5L)	
	Storage	12 months when stored indoors in original sealed containers between 10°C and 30°C, away from direct sunlight. Partly used containers must be sealed tightly when not in use. Refer to current Safety Data Sheet for information on safe handling and storage	
	Waste Disposal	Dispose of in accordance with local regulations.	
HEALTH & SAFETY	All applicable statutory regulations must be observed during application. Users must read the Safety Data Sheet for Enviroset 4116 ESD and familiarise themselves with all safety aspects of the product before use. Recommended PPE: Solvent-resistant gloves, safety eyewear and appropriate footwear.		

Note: The figures quoted for pot life and drying/curing times are not definitive. They are dependent on-site 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.