Enviroset 4116

TECHNICAL DATA SHEET

Solvent free epoxy coating suitable for roll coat or self-smoothing topping

A & I Coatings **ENVIROSET 4116** is a 2 component 100% solids solvent free pigmented epoxy with excellent surface hardness and adhesion. It exhibits good abrasion and chemical resistance.

USES & BENEFITS	• Concrete protection • Floor coatings • Repaints and maintenance • Wear resistant coating for workshops, warehouses, carparks, amenities and manufacturing facilities • Self-smoothing slurry layers				
	Benefits • Can be used as an intermediate coat and subsequent topcoat for A & I Coatings high-performance coating systems. • Exceptionally hard wearing, excellent flow properties, light reflective and easy to clean. • Extendable with fine kiln dried sand for thicker self-smoothing build. • Easy to clean and light reflective. • Low VOC / Greenstar compliant.				
PROPERTIES	Vehicle Type	100% Solid Solvent Free Epoxy			
	Primer Required	Not Required on Concrete and mineral substrate			
	Mix Ratio	3:1 by Volume			
	Pot Life	Approx 25 minutes @ 25°C using standard hardener.			
	Usual No. of Coats	2 – 3 coats, dependent on substrate, when used as a roll coat system.			
	Theoretical Coverage	Roll Coat: 5 – 7 m^2/L @ 145–200 µm DFT per coat. Sef Smoothing Coat: 1.8 kg/m^2/mm (10L Kits with 9 Kg of TN Sand)			
	Colour	8 standard colours or any RAL or AS 2700 colours.			
	Finish	Gloss			
	Volume Solids	100%			
	Density	1.5 kg/L			
	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	81		ASTM D2240	
	Critical Radiant Flux	10.3 kW/m^2		AS/ISO 9239.1.	
	Smoke Development Rate	59%. Minutes		AS/ISO 9239.1.	

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A&I COATINGS

SURFACE PREPARATION	Allow new concrete to cure for a minimum of 28 days prior to coating. The surface must be sound, dry and free from all loose material, laitance, old coatings, dust and surface contaminants such as oil, grease, chemicals and release or curing agents. Substrates must be mechanically prepared to achieve a rating of CSP2 (ICRI). Moisture content in the concrete must be no greater than 4.5% by weight prior to application of Enviroset 4116 by ASTM F2659. Ensure no rising moisture will occur in concrete by means of an effective subgrade damp-proof membrane. Concrete must have a minimum compressive strength of 25 MPa and a minimum pull-off strength of 1.5 MPa.	
APPLICATION DATA	Mixing	Pre-mix Part A with colour pack 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. For self-smoothing topping, add up to 9 kg of TN sand to a mixed 10L kit, and mix for additional two minutes.
	Application	Apply by roller or brush for roll coat or pin rake / flat trowel and spike roller for self-smoothing layer. Thinners is only suitable with roll coat application with a maximum of 8% by volume of methylated sprits or Vitrethane 104.
	Cleaning	Clean tools and equipment using Vitrethane 104.
PACKAGING & STORAGE	Packaging	Available in 10 L Kits. (Part A: 6.9L, Part B: 2.5L, Colour Pack: 1kg) Contact A & I Coatings for other pack size or pre-tinted kits.
	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 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.