Enviroset 2100

TECHNICAL DATA SHEET

Vapour Permeable Water Based Epoxy Coating

A & I Coatings **ENVIROSET 2100** is a pigmented 2 component water-based epoxy coating with excellent film properties and surface hardness. It is a self-priming and environmentally friendly coating system which is ideal as a floor coating, due to its excellent adhesion. It can be tinted to an unlimited colour range.

USES & BENEFITS	• Floor Coatings • Factory and Warehouse • Hospitality • Retail		• Schools • Storage Facilities • Wall Coatings.		
	Benefits • Vapour permeable • Low VOC / Greenstar compliant. • Low Smell.		• APAS Approval. • Damp substrate tolerant. • Hard wearing.		
PROPERTIES	Vehicle Type	Epoxy			
	Primer Required	Not Required on Concrete and mineral substrate			
	Mix Ratio	1:1 by Volume			
	Pot Life	Approx 60 minutes @ 25°C **Do not exceed pot life, even if product is still liquid, it will lead to uneven surface sheen and colour.**			
	Usual No. of Coats	2 – 3 coats, dependent on substrate.			
	Theoretical Coverage	Roll Coat: 7 – 8 m^2/L @ 50–60 µm DFT per coat.			
	Colour	AS 2700 Colour Range			
	Finish	Semigloss			
	Volume Solids	38%			
	Density	1.12 kg/L, dependant on colour			
	Water Vapour Transmission	26.9437 g/m^2.day			
	Water Vapour Permeance	0.4183 g/m^2.Pa.hr			
	VOC Content	< 30g/L			
	Chemical Resistance	Good Contact A&I Coatings for further information			
	Application Conditions	8 – 35°C, **maximum 85% Relative humidity** 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	4	24	4	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. **Ensure good air flow is achieved during curing for a proper aesthetic finish.**				
MECHANICAL PROPERTIES	**Property**			**Test Method**	
	Abrasion Resistance	115g / 500 Cycles CS17 1kg		ASTM D4060	

Enviroset 2100

TECHNICAL DATA SHEET

Vapour Permeable Water Based Epoxy Coating

A&I COATINGS

	Impact Resistance	10.1 J	AS 1580.406.1
	Critical Radiant Flux	12.4 kW/m^2	AS/ISO 9239.1.
	Smoke Development Rate	0%. Minutes	AS/ISO 9239.1.
SURFACE PREPARATION	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 minimum rating of CSP2 (ICRI). Moisture content in the concrete must be no greater than 6.0% by weight prior to application of Enviroset 2100 by ASTM F2659. 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 for one minute, then mix Part A and B at 1:1 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 5% by volume of clean water.	
	Cleaning	Clean tools and equipment using clean water or acetone.	
PACKAGING & STORAGE	Packaging	Available in 4L (Part A: 2 L, Part B: 2 L) 20 L Kits (Part A: 10 L, Part B: 10 L)	
	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 2100 and familiarise themselves with all safety aspects of the product before use. Recommended PPE: 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.