

ENVIROSET 2100



Two Pack Water Based Epoxy

Technical Data Sheet Number 190

PRODUCT DESCRIPTION	<p>A & I Coatings ENVIROSET 2100 is a two pack water borne 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 and chemical resistance. It can be tinted to an unlimited colour range.</p>	
USES & BENEFITS	<p>Concrete floors, walls and machinery in areas such as:</p> <ul style="list-style-type: none"> • Factories and warehouses • Food and beverage industry • Hospitals, shopping centres, schools and laboratories • Chemical industry • Retaining walls • Seamless flooring • Waterproofing concrete slabs before floor overlay 	
	<p><u>Benefits</u></p> <ol style="list-style-type: none"> 1. Can be easily brushed or rolled. 2. Excellent surface hardness and water resistance 3. May be applied down to 8°C. 	<p><u>Limitations and Notes</u></p> <ol style="list-style-type: none"> 1. Amine bloom may occur if humidity is above 80%. Use ventilation to lower humidity if above 80% or likely to be above 80% over curing period. 2. Minimum surface temperature should be at least 3°C above dew point. 3. Chalking will occur during full sunlight exposure without loss of film integrity. Can be over coated with Envirothane topcoats for UV resistance
PHYSICAL PROPERTIES	Vehicle Type	Epoxy
	Hardener	Polyamide
	Pigmentation	Titanium dioxide or other
	Mixing Ratio	1:1 (Pack A : Pack B) by Volume
	Pot Life	1 hour@ 25°C
	Finish	Semigloss
	Theoretical Coverage	6 - 10m ² /litre @ 40 to 60µm DFT (100 - 170 µm WFT)
	Volume Solids	37% by Volume
	Recommended DFT	Typically 40 - 60µm DFT per coat dependant on application
	Usual No. of Coats	2 – 3 coats
	Primer Required	Not normally on concrete. Contact A & I Coatings for use on other substrates
	Colour	Light Grey AS 2700 N35 or other colour on request
	Product Weight	Approx. 1.12Kg/Litre dependant on colour
	VOC Content	26 grams/Litre
ENGINEERING DATA	Abrasion Resistance	Very good. NB. Black, dark, and strong colours will benefit with the addition of a thin coat of E2000 Clear or E8474 Clear to maximize mar resistance
	Bacterial Resistance	Very Good
	Chemical Resistance	Alkali – Excellent. Acid – Fair to very good. Contact A & I Coatings Technical Team for specific requirements
	Salt Spray Resistance	Very Good
	Durability	Excellent for indoor application, topcoat needed for exterior
	Dry Heat Resistance	120 °C
	Solvent Resistance	Excellent

CURING DATA	Substrate Temp.(°C)	Touch Dry	Light traffic	Full Cure	Recoat Min
	10°C	6 - 8 Hrs	48 Hrs	7 Days	7 hrs
	25 °C	3 – 5 Hrs	24 Hrs	7 Days	4 hrs
	Note	Abrade if recoating after 7 days			
APPLICATION DATA	Mixing	Power stir Pack A then blend Pack A with Pack B and power stir thoroughly for 2 minutes before thinning. Thin 1st coat up to 40% with clean water. The first coat can normally be walked on after 3 - 5 hours and the second coat applied. A third coat if required can then be applied next morning. The floor would then be ready to take light to medium traffic the following morning.			
	Application	Airless spray (rec tip range = 15 – 19Thou), roller or brush.			
	Thinning	Water. N.B. Always stir Part A & B together well, before adding water.			
	Cleaning	Use water, mild detergent, or methylated spirits.			
SURFACE PREPARATION	General	All surfaces to be structurally sound and free of contamination, particularly salt deposits. Loose or flaking paint must be removed by abrasive blast cleaning, power tool cleaning or sanding. Oil, grease, dirt etc must be removed with detergent and water blasting in accordance with AS 1627.1.			
	Concrete	Allow new concrete surfaces to cure for a minimum of 28 days before painting. Surface to be painted should be free from oil, grease etc in accordance with SSPS – SP1. To get uniform surface profile, use shot blasting, diamond grinding or acid etch. (Note: Acid etching is not recommended if excessive form oil is present in the concrete).			
	Aluminium, galvanised steel & Zincalume	Remove oil and degrease with mild detergent or with solvent to AS 1627.1. Slightly roughen the surface by sanding or light whip blasting with a non metallic abrasive. Apply suitable primer according to specification.			
	Existing painted surfaces	All surfaces should be free from oil, grease and other contaminates, and loose and unsound paint. The existing coating must be thoroughly abraded and adhesion of E2100 to the existing coating checked prior to commencing the project.			
WORK STOPPAGES	General	Do not allow material to remain in hoses, gun or spray equipment. Once units of paint have been mixed they should not be resealed and it is advised that after prolonged stoppages work recommences with freshly mixed units.			
	Clean Up	Clean all equipment after use with A & I Coatings recommended cleaner. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time (including delays).			
PACKING & STORAGE	Packing	Available in 4L or 20L Packs. For availability of other sizes, contact A&I			
	Storage	12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter.			
HEALTH & SAFETY	All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Enviroset 2100. Users should familiarize themselves with all the safety aspects of the product. Please ensure the current Technical Data Sheet is consulted prior to specification or application of A & I Coatings products. 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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