

ENVIROSET 2000

TECHNICAL DATA SHEET

Two Pack Water Based Extra Clear Epoxy



A & I Coatings ENVIROSET 2000 is a two-pack water borne very clear epoxy coating with excellent film properties and surface hardness. This self-priming and environmentally friendly coating system is ideal as a floor coating with excellent adhesion and chemical resistance.

USES & BENEFITS	Concrete floors, walls and machinery in areas such as:		
	<ul style="list-style-type: none"> • Factories & Warehouses • Schools and laboratories • Food and beverage industry • Polished floor sealing • Hospitals and shopping centres • Exposed aggregate seal coat • Dust sealing powdery concrete • Seamless flooring 		
PHYSICAL PROPERTIES	Benefits	Limitations	
	<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 4. Low odour 5. Meets Greenstar requirements 6. Low VOC 	<ol style="list-style-type: none"> 1. Enviroset 2000 Clear Satin can only be applied to concrete after first applying a coat of E2000 Clear Gloss. 2. Amine bloom may occur if humidity is above 80%. 3. Minimum surface temperature should be at least 3°C above dew point. 4. Chalking will occur during full sunlight exposure without loss of film integrity. Can be overcoated with Envirothane topcoats for UV resistance. 	
PHYSICAL PROPERTIES	Vehicle Type	Epoxy Emulsion	
	Hardener	Aliphatic polyamine adduct	
	Ratio	1:1 (Pack A : Pack B) by Volume	
	Pot Life	1 hour@25°C	
	Finish	Satin or gloss	
	Theoretical Coverage	8m ² /litre@55µm DFT. (120µm WFT)	
	Volume Solids	46% by Volume	
	Recommended DFT	Dependent on application. Typically, 50µm DFT/coat	
	Usual No. of Coats	2 – 3 coats	
	Colour	Clear	
	Primer Required	Not necessary. Can be applied direct to concrete. E2000 Satin as topcoat requires priming with E2000 Gloss.	
	Product Weight	Approx. 1.0Kg/Litre	
	VOC Content	26 grams/Litre	
ENGINEERING DATA	Abrasion Resistance	Excellent	
	Chemical Resistance	Enviroset 2000 displays resistance to many common chemicals in spill or splash situations at ambient temperatures. The following chemicals are an example only. Consult A&I for specific applications	
		<ul style="list-style-type: none"> • Hydrochloric Acid (10%) • Sodium hydroxide (10%) 	<ul style="list-style-type: none"> • Kerosene • Turpentine

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ENGINEERING DATA	Chemical Resistance	<ul style="list-style-type: none"> · Hydrogen peroxide (3%) · Organic Food Matter · Hydrocarbon solvents 	<ul style="list-style-type: none"> · Motor Oil · Grease · Diesel 	<ul style="list-style-type: none"> · Brake Fluid · Wine 	
		Some chemicals may cause surface staining from prolonged exposure without impacting the coating integrity. Data is available on request. Exposure based on spill and splashes cleaned within 24hrs.			
	Bacterial Resistance	Very good			
	Wet Heat Resistance	Up to 70°C			
	Dry Heat Resistance	120°C			
CURING DATA	Substrate Temp.(°C)	Foot Traffic	Vehicle Traffic	Full Cure	Recoat Min
	Standard Hardener 25°C	24 Hrs	96 Hrs	7 Days	12 Hrs
	Note: When overcoating E2000 with itself, application to occur within 48hrs at 25 °C No water or condensation should contact the coating for 5 days from installation.				
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 to cure for 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 E2000. 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.			
	Repaints	All surfaces should be free from oil, grease, loose previous paint flakes and other contaminations. Though Enviroset 2000 may give good adhesion, a test patch is always recommended before use.			
	Steel	Degrease the surfaces and remove all weld spatter and flux. Grind sharp edges and corners. For best results abrasive blast clean to specified/recommended AS 1627-1 to 10 class Sa 2.5. Apply A & I Coatings primer to specification. Please consult A & I Coatings Technical team for specifications.			
APPLICATION DATA	Mixing	Blend Pack A with Pack B and power stir thoroughly for at least 2 minutes. Pot lifetime must be closely monitored as water-based epoxies may not go hard at the end of the pot life.			

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APPLICATION DATA	Application	6-9mm nap roller or brush. Use vigilance to apply the coating at a spread rate of 7-9m ² /L and back roll to remove overlap marks
	Ambient Temperature	Apply between 8-35 °C
	Thinning	Water. Thin up to 10% if necessary. Thinning with water only to be done after Pack A and B have been mixed. After adding water to thin mix again for 60 seconds.
	Cleaning	Use water or Acetone.
WORK STOPPAGES	General	Once units of paint have been mixed, they should not be resealed, and it is advised that after prolonged stoppages work commences 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 20L kits. For availability of other sizes, contact A & I Coatings
	Storage	12 months if stored in sealed containers away from heat & frost. Subject to reinspection thereafter.
HEALTH & SAFETY	<p>All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Envirothane 2000. Users should familiarise themselves with all the safety aspects of the product prior to usage.</p> <p>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.</p>	

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-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