

ENVIROSET 2200

TECHNICAL DATA SHEET

Two Pack Water Based Pigmented Gloss Epoxy Coating



A & I Coatings ENVIROSET 2200 is a two pack water borne epoxy with excellent film properties and surface hardness. It has high water resistance, good adhesion properties and is surface tolerant. ENVIROSET 2200 is ideal as a floor coating because it is easy to clean and various non slip ratings can be achieved with the addition of suitable media.

USES & BENEFITS	Uses <ul style="list-style-type: none">• Primed Steel as a build or barrier coat • Factories, warehouses and hangars • Food and beverage industry• Chemical industry • Hospitals, shopping centres, schools and laboratories																			
	<table border="0"><tr><td>Benefits<ol style="list-style-type: none">1. Can be easily brushed or rolled2. Excellent surface hardness and water resistance3. Excellent cleanability4. Low odour5. Meets Greenstar requirements6. Good wear resistance7. Low VOC</td><td>Limitations<ol style="list-style-type: none">1. Not to be applied below 10°C and above 85% R.H.2. Chalking will occur in full UV exposure, but without loss of film integrity. Can be over coated with suitable Envirothane topcoats for UV resistance3. Only available in full gloss4. Minimum surface temperature should be at least 3 °C above dew point at time of application and initial cure.</td></tr></table>	Benefits <ol style="list-style-type: none">1. Can be easily brushed or rolled2. Excellent surface hardness and water resistance3. Excellent cleanability4. Low odour5. Meets Greenstar requirements6. Good wear resistance7. Low VOC	Limitations <ol style="list-style-type: none">1. Not to be applied below 10°C and above 85% R.H.2. Chalking will occur in full UV exposure, but without loss of film integrity. Can be over coated with suitable Envirothane topcoats for UV resistance3. Only available in full gloss4. Minimum surface temperature should be at least 3 °C above dew point at time of application and initial cure.																	
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PHYSICAL PROPERTIES	Vehicle Type	Epoxy																		
	Hardener	Polyamide																		
	Mixing Ratio	2:1 by volume (Part A : Part B)																		
	Pot Life	1 hour@25°C																		
	Finish	Gloss																		
	Theoretical Coverage	4.5-6m ² /Litre at 75 to 100µm DFT/ 160 – 210µm WFT																		
	Volume Solids	Clear – 41% by volume, White – 47% by volume																		
	Recommended DFT	Typically 75 - 100µm DFT/coat depending on application																		
	Usual No. of Coats	By spray – 1 - 2, brush or roller 1- 2																		
	Primer Required	Not necessary. Can be applied direct to concrete. For other substrates contact A&I Coatings.																		
	Colour	Clear, Light Grey AS 2700 N35 or other colour on request.																		
	Pigmentation	Titanium dioxide or other lead free pigment																		
	Product Weight	Approx. 1.04-1.3Kg/Litre dependant on colour																		
VOC Content	89 grams to 118 grams per litre dependent on colour																			
ENGINEERING DATA	Abrasion Resistance	Excellent																		
	Chemical Resistance	<p>Enviroset 2200 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.</p> <table border="0"><tr><td>· Uric acid (concentrated)</td><td>· Skydrol</td><td>· Grease</td></tr><tr><td>· Sodium hydroxide (10%)</td><td>· Hydraulic Fluid</td><td>· Wine</td></tr><tr><td>· Hydrogen peroxide (3%)</td><td>· Brake Fluid</td><td>· Diesel</td></tr><tr><td>· MEK</td><td>· Motor Oil</td><td>· Hydrocarbon solvents</td></tr><tr><td>· Kerosene</td><td>· Toluene</td><td></td></tr><tr><td>· Turpentine</td><td>· Organic Food Matter</td><td></td></tr></table>	· Uric acid (concentrated)	· Skydrol	· Grease	· Sodium hydroxide (10%)	· Hydraulic Fluid	· Wine	· Hydrogen peroxide (3%)	· Brake Fluid	· Diesel	· MEK	· Motor Oil	· Hydrocarbon solvents	· Kerosene	· Toluene		· Turpentine	· Organic Food Matter	
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Dry Heat Resistance	120 °C																			
Hot Water Resistance	Up to 70°C																			
Solvent Resistance	Good																			

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CURING DATA	Substrate Temp.(°C)	Foot Traffic	Vehicle Traffic	Full Cure	Recoat Time min
	25 °C	16 Hrs	72 Hrs	7 Days	24 Hrs
Note: When overcoating E2200 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	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 E2200. 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 paint and other contaminants. Check for correct adhesion by first applying a test patch. A thorough abrasion of old coated surface is recommended.			
APPLICATION DATA	Mixing	Stir Pack A using a power mixer, then blend Pack A with Pack B completely and power stir thoroughly for 2 minutes. Be careful not to entrain air.			
	Application	Airless spray (rec tip range = 15 - 21Thou), brush or roller.			
	Ambient Temperature	Apply between 8-35 °C			
	Thinning	Thin sparingly with water if required. Maximum Thinning 10% and only added after Pack A and B has been mixed. After adding water, mix for a further 60 seconds.			
	Cleaning	Use water, mild detergent, or methylated spirits.			
	Note	This product may be used with non-slip media to achieve various anti-slip ratings. Contact A & I Coatings to discuss your requirements.			
WORK STOPPAGES	General	Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with A & I Coatings recommended cleaner. 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. It is good work practice to periodically flush out spray equipment during the course of the working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time (including delays).			
PACKING & STORAGE	Packing	Available in 15L kits. For other sizes, contact A & I Coatings.			
	Storage	12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter.			

All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Enviroset 2200. Users should familiarise themselves with all the safety aspects of the product prior to usage.

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.

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