ENVIROSET 2100

TECHNICAL DATA SHEET

Two Pack Water Based Epoxy. Vapour permeable.

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.

USES & BENEFITS

Uses

▪ Factories and warehouses ▪ Food and beverage industry ▪ Hospitals, shopping centres, schools and laboratories ▪ Chemical industry ▪ Retaining walls ▪ Seamless flooring

Benefits

1. Can be easily brushed or rolled.
2. Excellent surface hardness and water resistance
3. May be applied down to 8°C.
4. **Vapour permeable breathable coating.**

Limitations

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/Vitrethane 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 - 10m²/litre @ 40 to 60µm DFT (100 - 170 µm WFT) per coat
Volume Solids	38% by Volume
Recommended DFT	Typically, 40 - 60µm DFT per coat dependant on application
Usual No. of Coats	2 – 3 coats
Primer Required	Not on concrete. Contact A & I Coatings for use on other substrates
Colour	Light Grey AS 2700 N35 or other colours on request
Product Weight	Approx. 1.12Kg/Litre dependant on colour
VOC Content	<27 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 E8470 Clear to maximize mar resistance
Bacterial Resistance	Very good
Chemical Resistance	Enviroset 2100 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. · Hydrochloric Acid (10%) · Nitric Acid (10%) · Sulfuric acid (40%) · Uric acid (concentrated) · Sodium hydroxide (10%) · Hydrogen peroxide (3%) · MEK · Kerosene · Turpentine · Skydrol · Hydraulic Fluid · Brake Fluid · Motor Oil · Toluene · Organic Food Matter · Grease · Wine · Diesel · Hydrocarbon solvents Some chemicals may cause surface staining from prolonged exposure without impacting the coating integrity. Data is available on request. Exposure based on spills and splashes cleaned within 24hrs.
Salt Spray Resistance	Very Good
Durability	Excellent for indoor application, topcoat needed for exterior

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A&I COATINGS

ENGINEERING DATA	Dry Heat Resistance	120 °C			
	Hot water resistance	70 °C			
	Solvent Resistance	Good			
CURING DATA	Substrate Temp.(°C)	Foot Traffic	Vehicle Traffic	Full Cure	Recoat Time min
	25 °C	24 Hrs	4 Days	7 Days	4 hrs (based on good airflow)
	Note: When overcoating E2100 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 surfaces to cure to be <6% moisture PBW. Surface to be coated should be free from oil, grease. To get uniform surface profile, use shot blasting or diamond grinding. Concrete to be min 25Mpa compressive strength and 1.5Mpa pull off strength.			
	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.			
APPLICATION DATA	Mixing	Power stir Pack A then blend Pack A with Pack B and power stir thoroughly for at least 2 minutes before thinning. Thin 1st coat up to 20% with clean water and final coat up to 5% with clean water.			
	Application	Airless spray (rec tip range = 15 - 19Thou), roller or brush.			
	Ambient Temperature	Apply between 8-35°C			
	Thinning	Water. N.B. Always stir Part A & B together well, before adding water. After water added mix again for 60 seconds.			
	Cleaning	Use Water or Acetone			
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 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 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