

Two Pack Water Based Epoxy Coating ENVIROSET 2100

PRODUCT DESCRIPTION: A & I Coatings ENVIROSET 2100 is a two pack water borne epoxy coating with excellent film properties and surface hardness. Enviroset 2100 is a self priming and environmentally friendly coating system which is ideal as a floor coating, due to its excellent adhesion, chemical resistance and tolerance to damp surfaces. Enviroset 2100 can be tinted to an unlimited colour range.

TYPICAL APPLICATIONS:

Concrete floors, walls and machinery in areas such as:

- Factories and warehouses
- Hospitals, shopping centres, schools and laboratories
- Retaining walls
- Waterproofing concrete slabs before floor overlay.
- Food and beverage industry
- Chemical industry
- Seamless flooring
- Hangars – Skydrol Resistant

TECHNICAL INFORMATION

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
Colour	: Light Grey AS N35 or other colour on request.
Dry time (minimum)	: Touch Dry 3 - 5 Hours @ 25°C Hard Dry 18 Hours @ 25°C Full cure, continues to harden over next 7 days.
Recoat time (minimum)	: Four hours. Abrade if recoating after 7 days.
Primer Required	: Not normally on concrete. Contact A & I Coatings for use on other substrates.
Theoretical Coverage	: 6 - 10m ² /litre @ 40 to 60µm DFT (100 - 170 µm WFT).
Volume Solids	: 37% by Volume.
Recommended DFT	: Dependant on application. Typically 40 - 60µm DFT per coat.
Usual no. of coats	: 2 – 3 coats.
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.
Heat Resistance	: 120 °C (Dry heat).
Solvent Resistance	: Excellent.
Salt Spray Resistance	: Very Good.
Thinning and cleaning	: Water. N.B. Always stir Part A & B together well, before adding water
Durability	: Excellent.
Product weight	: Approx. 1.12Kg/Litre dependant on colour
VOC Content	: 26 grams/Litre

MERITS:

1. Can be easily brushed or rolled.
2. Can be used over damp surfaces.
3. Excellent surface hardness and water resistance.
4. May be applied down to 8°C.

LIMITATIONS:

1. Chalking will occur during full sunlight exposure without loss of film integrity. Can be over coated with Envirothane topcoats for UV resistance.

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.

Equipment : Airless spray (rec tip range = 15 – 19Thou), roller or brush.

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.

SURFACE PREPARATION:

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 surfaces

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 and Zincalume

Remove oil and grease 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, loose previous paint flakes and other contaminates. The existing coating must be thoroughly abraded and adhesion of E2100 to the existing coating checked prior to commencing the project.

WORK STOPPAGES : 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 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.

HEALTH AND 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 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 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.

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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