

Two Pack Water Based Extra Clear Epoxy Coating

ENVIROSET 2000

PRODUCT DESCRIPTION: 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, chemical resistance and tolerance to damp surfaces.

TYPICAL APPLICATIONS:

Concrete floors, walls and machinery in areas such as:

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| ▪ Factories & Warehouses | Hospitals and shopping centres |
| ▪ Schools and laboratories | Exposed aggregate seal coat |
| ▪ Food and beverage industry | Dust sealing powdery concrete |
| ▪ Polished floor sealing | Seamless flooring |

N.B. Enviroset 2000 Clear Satin can only be applied to concrete after first applying a coat of E2000 Clear Gloss.

TECHNICAL INFORMATION

Vehicle Type	: Epoxy Emulsion cross-linked with Aliphatic polyamine adduct
Mixing Ratio	: 1:1 (Pack A : Pack B) by Volume.
Pot life	: 1 hour@25°C.
Finish	: Satin or gloss.
Colour	: Clear
Dry time (Minimum)	: Touch Dry 6 Hours@25°C Hard Dry 24 Hours@25°C Full cure, continues to harden over next 7 days.
Recoat time (Minimum)	: Six hours @ 25°C Abrade if recoating after 7 days.
Primer Required	: Not normally on concrete. Contact A & I Coatings for use on other substrates.
Theoretical Coverage	: 8m ² /litre@55µm DFT. (120µm WFT)
Volume Solids	: 46% by Volume.
Recommended DFT	: Dependant on application. Typically 50µm DFT/coat.
Usual no. of coats	: 2 – 3 coats.
Abrasion Resistance	: Excellent.
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 (Thin up to 10 - 30% with water if necessary only).
Product weight	: Approx. 1.0Kg/Litre.
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.
2. Must be applied within one hour of mixing to avoid colour change in the final finish.
3. Not suitable for coating bricks

APPLICATION DATA

Mixing : Blend Pack A with Pack B and power stir thoroughly for at least 2 minutes. The first coat can normally be walked on after 5-6 hours and the second coat applied. The floor is then ready to take light to medium traffic the after 24 hours. Potlife time must be closely monitored as water based epoxies may not go hard at end of potlife.

Equipment : Airless spray (rec tip range = 15 – 17Thou), roller or brush.

Cleaning : Use water, mild detergent or methylated spirits.

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.

Repaints

All surfaces should be free from oil, grease, loose previous paint flakes and other contaminates. Though Envirothane 2000 may give good adhesion, a test patch is always recommended before use.

Steel structures

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 particular specifications.

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 kits. For availability of other sizes, contact **A & I Coatings**.

Storage : 12 months if stored in sealed containers away from heat & frost. 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 Envirothane 2000. 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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