

ENVIROSET 2105



Two Pack Water Based Epoxy Antibac

Technical Data Sheet Number 265-1

PRODUCT DESCRIPTION	A & I Coatings Antibac Enviroset 2105 coating is a two-pack water borne epoxy coating with anti-bacterial and anti-microbial properties. This product displays a low sheen ultra-smooth finish with exceptional resistance to harsh and regular clinical cleaning cycles. It is a self-priming and environmentally friendly coating system which is ideal as a door, wall, and trim coating and can be tinted to an unlimited colour range.	
USES & BENEFITS	Walls, doors, and trims in environments such as: <ul style="list-style-type: none"> • Hospitals • Schools • Laboratories • Surgeries • Food and Beverage Processing Plants • Veterinary Centres 	
	<u>Benefits</u> <ol style="list-style-type: none"> 1. Resists fungal and bacteria build up. 2. Can be easily brushed or rolled. 3. Excellent surface hardness and chemical resistance 	<u>Limitations and Notes</u> <ol style="list-style-type: none"> 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 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	Low Sheen
	Theoretical Coverage	8 - 14m ² /litre
	Volume Solids	37% by Volume
	Recommended DFT	Typically 40 - 60µm DFT per coat dependant on application
	Usual No. of Coats	2 coats
	Primer Required	No. This product is self priming
Colour	Unlimited	
VOC Content	26 grams/Litre	
ENGINEERING DATA	Fungal Resistance	Tested in accordance with AATCC 30 Antifungal Assessment and Mildew Resistance Test
	Bacteria Resistance	Tested in accordance with ISO 22196:2011 - Measurement of antibacterial activity on plastics and other non-porous surfaces
	Abrasion Resistance	Very good – Contact A&I for test reports
	Chemical Resistance	Alkali – Excellent. Acid – Fair to very good. Contact A & I Coatings Technical Team for specific requirements
	Durability	Excellent for indoor application, topcoat needed for exterior
	Dry Heat Resistance	120 °C
	Solvent Resistance	Excellent

CURING DATA	Substrate Temp.(°C)	Touch Dry	Full Cure	Recoat Min
	10°C	6 – 8 Hrs	7 Days	7 hrs
	25 °C	3 – 5 Hrs	7 Days	4 hrs
	Note	Abrade if recoating after 7 days		
APPLICATION DATA	Mixing	Power stir Pack A then blend Pack A with Pack B and power stir thoroughly for 2 minutes before thinning.		
	Application	Airless spray (rec tip range = 15 – 19Thou), roller or brush.		
	Thinning	Water. N.B. Always stir Part A & B together well, before adding water.		
	Cleaning	Use water, mild detergent, methylated spirits or acetone		
SURFACE PREPARATION	General	All surfaces to be structurally sound and free of contamination. Loose or flaking paint must be removed by power tool cleaning or sanding. Grease, oils, cleaning agents, fluids, dust, and grime and other contaminants must be removed in accordance with AS 1627.1.		
COATING SYSTEMS	Existing painted surfaces	All surfaces should be free from contaminates and loose and unsound paint. The existing coating must be thoroughly abraded and adhesion of E2105 to the existing coating checked prior to commencing the project.		
	Concrete	Allow new concrete surfaces to cure for a minimum of 28 days before painting. Surfaces to be painted should be free from all form oils, curing agents and other contaminants. The concrete surface must be suitably prepared to ensure the surface is etched and porous. It is recommended that the water droplet penetration test is carried out on all concrete surfaces to ensure there are no contaminants on the surface preventing penetration into the substrate. Apply a minimum of two coats of Enviroset 2105.		
	Plasterboard	All surfaces must be clean, set, and dry prior to painting. Remove all dust from the surface by wiping it down with a damp cloth. Once dry apply water based acrylic plasterboard primer followed by two coats of Enviroset 2105.		
	New Timber – Pre-primed	Remove all dust from the surface by wiping it down with a damp cloth. Once dry apply two coats of Enviroset 2105.		
	New Timber – Raw	Sand the timber with a fine sandpaper only sanding in the direction of the grain. Wipe down the timber with a damp cloth to remove dust particles. Apply a water based acrylic tannin blocking primer followed by two coats of Enviroset 2105.		
	Metal Surfaces (Internal, Non-Corrosive Environments). Includes Aluminium, Zinalume, HDG, Mild and Stainless Steel	All surfaces to be coated must be clean, dry, and free from contamination. Oil or grease should be removed in accordance with AS1627.1 (SSPC SP1) solvent cleaning. Corroded areas must be treated by abrasive blasting to AS1627.4 Class 2.5 or by Power Tool Cleaning to SSPC-SP3. Following surface preparation apply a prime coat of Envirophos 2300 Water Based Zinc Phosphate Primer followed by two coats of Enviroset 2105.		
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		
	Storage	12 months if stored in sealed containers away from heat and moisture. Subject to re-inspection thereafter.		
HEALTH & 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 2105. 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.
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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

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