

ENVIROTHANE 8470

Water Based Two Pack Polyurethane

Technical Data Sheet Number 241



PRODUCT DESCRIPTION	A & I Coatings ENVIROTHANE 8470 is a unique high performance water borne two pack acrylic polyurethane with exceptional durability. It provides ease of use and VOC compliance and is suitable for brush, roller or spray application. This environmentally friendly fast drying coating has very good yellowing and UV resistance on exterior exposure. May be applied over an epoxy basecoat to provide a durable weather resistant system. It has good abrasion and chemical resistance.				
USES & BENEFITS	<ul style="list-style-type: none">External concrete coatingSeamless flooringMasonry		<ul style="list-style-type: none">Carparks and Automobile ShowroomsShopping Centres		
	<u>Benefits</u> <ul style="list-style-type: none">1. Exceptional colour retention properties2. Suitable for brush, roller and spray application		<u>Limitations</u> <ul style="list-style-type: none">1. Available only in satin2. Not to be applied below 10°C and above 85% R.H.3. Epoxy primer needed on concrete.4. Not to be applied to a hot surface5. Excessive thickness could cause whitening		
PHYSICAL PROPERTIES	Vehicle Type	Acrylic Polyurethane			
	Hardener	Water Dispersible Isocyanate			
	Mixing Ratio	8 : 1 (Pack A : Pack B) by Volume			
	Pot Life	Approximately 2 hours @ 25°C, dependant on temperature			
	Finish	Satin			
	Theoretical Coverage	6.0 – 9.0m²/Litre @ 50 - 70µm(110 - 165µmWFT)			
	Volume Solids	43%			
	Recommended DFT	50 - 75µm for clear minimum, 70-80µm for pigmented minimum depending on substrate			
	Usual No. of Coats	1 – 2 coats			
	Primer Required	E2000 Clear or E2100 pigmented. (A & I Coatings staff can advise on the most appropriate primer coat for a specific task)			
	Colour	Clear or pigmented			
	Pigmentation	Various			
	Product Weight	1.0Kg/Litre			
	VOC Content	36 grams/Litre			
ENGINEERING DATA	Abrasion Resistance	Excellent			
	Chemical Resistance	Very good to a wide range of chemicals. Contact A & I Coatings for specific requirements			
	Dry Heat Resistance	120°C			
	Solvent Resistance	Very Good			
	Durability	Very Good			
	Salt Spray Resistance	Good			
CURING DATA	Substrate Temp.(°C)	Touch Dry	Dry to Handle	Full Cure	Recoat Min
	10 °C				
	25 °C	45 Min	2 Hrs	7 Days	2-4 Hrs
	40 °C				
	Note	May be recoated after tack dry e.g. 2 - 4 hours @ 25°C. Hard Dry 24 hours @ 25°C			

APPLICATION DATA	Mixing	Stir Pack A using a power mixer, then blend Pack A with Pack B completely and power stir thoroughly for at least 2 minutes before thinning. Thin 5 – 10% with water if required. For use as a sealer coat thin the first coat around 20% with water. NB: Reseal hardener tin well if not fully used.
	Application	Air or Airless Spray, brush, or roller. (A & I Coatings technical staff can advise on the most appropriate equipment for a specific task).
	Thinning	May be thinned with water as necessary.
	Cleaning	Clean up with water.
	Typical Specification	One coat E2100. One coat E8470. One coat E8474 if gloss needed. (Contact A & I Coatings for details).
	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	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, to AS 1627. Oil, grease, dirt etc must be removed with detergent and water blasting or solvent cleaning to AS1627.1. Primers should be abraded as necessary.
	Concrete	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 Contact A & I Coatings team for preparation details & primer specifications.
	Aluminium, Galvanised Steel & Zincalume	Remove oil and excess grease with mild detergent or with sugar soap. Slightly roughen the surface with the help of 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 paint and other contaminants. Though Envirothane 8470 may give good adhesion, a test patch is always recommended before use.
	Steel	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 9. Steel in corrosive environments typically require a high solids epoxy as a barrier coat. Please consult A & I Coatings Technical team for particular specifications.
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 9L packs. For availability of other sizes, contact A & I Coatings.
	Storage	12 months if stored in sealed containers away from heat & 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 Envirothane 8470. Users should familiarise themselves with all the safety aspects of the product prior to use. 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

May 2019 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.