

# ENVIROTHANE 8474



## Water Based Two Pack Urethane Topcoat

Technical Data Sheet Number 281

PRODUCT DESCRIPTION	A & I Coatings <b>ENVIROTHANE 8474</b> is a water borne two pack polyurethane coating which gives excellent adhesion, barrier and film properties on a variety of substrates. It is easy to use and environmentally friendly, with the added benefit of durability, good yellowing and UV resistance on exterior exposure. It has good abrasion and chemical resistance.				
USES & BENEFITS	<ul style="list-style-type: none"><li>Architectural and decorative steelwork</li><li>Anti graffiti topcoat</li><li>Concrete floor and masonry topcoat</li></ul>				
	<u>Benefits</u> <ul style="list-style-type: none"><li>1. Excellent weathering performance.</li><li>2. High gloss up to 92% 60º can easily be achieved</li><li>3. Good chemical resistance.</li><li>4. Good mechanical properties</li></ul>		<u>Limitations</u> <ul style="list-style-type: none"><li>1. Not to be applied at very low temperatures or high humidity (&lt;10ºC and over 75% R.H.)</li><li>2. Prone to bubbling if applied too thick (over 400 micron WFT)</li><li>3. Excessive thickness could cause whitening</li></ul>		
PHYSICAL PROPERTIES	Vehicle Type	Polyurethane			
	Hardener	Water dispersible isocyanate			
	Mixing Ratio	4:1 (Pack A : Pack B) by Volume			
	Pot Life	1.5 - 2 hours@25ºC			
	Finish	Gloss or Satin 30%			
	Theoretical Coverage	7.8m²/L@ 50µm DFT(128µmWFT) for clear, 9.4m ²/L@ 50µm DFT(106µmWFT) for white			
	Volume Solids	39% for clear, 47% for white			
	Recommended DFT	Typically 50 – 75 microns dependent on substrate			
	Usual No. of Coats	1 – 2 dependant on application			
	Primer Required	Yes, dependant on substrate. Contact A & I Coatings for specific applications			
	Colour	Clear or pigmented			
	Pigmentation	Various			
	Product weight	1.02 – 1.31Kg/Litre			
ENGINEERING DATA	Abrasion Resistance	Good			
	Bacterial Resistance	Excellent			
	Chemical Resistance	Very good to a wide range of chemicals. Contact A & I Coatings for specific requirements			
	Dry Heat Resistance	Up to 120ºC			
	Solvent Resistance	Good			
	Flexibility	Very good			
	Durability	Excellent			
	Salt Spray Resistance	Good			
CURING DATA	Substrate Temp.(ºC)	Touch Dry	Dry to Handle	Full Cure	Recoat Time min
	10 ºC				
	25 ºC	30 Min	3 Hrs	7 Days	2 – 8 Hrs
	40 ºC				
	Note	May be recoated after tack dry e.g. 2 - 8 hours @ 25ºC. Abrade surface if recoating after 48 hours			

APPLICATION DATA	Mixing	Power stir Pack A with Pack B thoroughly for at least 3 minutes, without causing an excess of foam, before thinning. Thin with water as necessary up to 30% and gently stir.
	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	Water
	Cleaning	Water
	Typical Specification	<p><u>Concrete coating</u></p> <p>One coat E2100 undercoat applied as per E2100 TDS (or E2000 for clear).</p> <p>One coat E8474 topcoat at 50 micron DFT. Fully cured in 7 days.</p> <p>N.B. When spraying best results are achieved with a light coat first followed by a double header coat when the water has flashed off. For other substrates contact A &amp; I Coatings, or visit our website on <a href="http://www.aicoatings.com">www.aicoatings.com</a>.</p>
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 5L 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 & SAFETY	<p>All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Envirothane 8474. 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 &amp; I Coatings products. If the surface intended to be painted differs from the specification, please consult the A &amp; I Coatings Technical team on 1800 819 585.</p>	

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](mailto:helpdesk@aicoatings.com) Visit our website for more products: [www.aicoatings.com](http://www.aicoatings.com)

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