

# ENVIROFLON 8480



## Water Borne Two Pack Engineered Fluoropolymer

Technical Data Sheet Number 247

PRODUCT DESCRIPTION	A & I Coatings <b>ENVIROFLON 8480</b> is a unique, environmentally friendly two pack water borne fluoropolymer coating with excellent graffiti and chemical resistance. It has superior UV resistance and colour retention, good application properties and is low in VOC's. Certification to APAS AP-S1441/1 is approved for Part A + Easy Mix Hardener.				
USES & BENEFITS	Primarily used as a protective topcoat over many substrates. Typically: <ul style="list-style-type: none"> <li>• Masonry</li> <li>• Laboratory bench tops</li> <li>• Structural and Decorative Steel</li> <li>• Rail and road noise walls</li> </ul>				
	<u>Benefits</u>	<u>Limitations</u>			
	1. Positive cure even at low temperatures	1. Not recommended for tank linings			
	2. Excellent graffiti and weather resistance	2. Not to be applied above 85% R.H.			
	3. Low VOC	3. Must be very thoroughly power stirred			
	4. Excellent colour and gloss retention	4. Not suitable for coating bricks			
		5. Short pot life at higher temperatures			
		6. Clear E8480 will moisture whiten when applied too heavy			
PHYSICAL PROPERTIES	Vehicle Type	Engineered Fluoropolymer			
	Hardener	Water dispersible Isocyanate			
	Mixing Ratio	5:1 (Pack A: Pack B) by volume for solid colours, 6:1 (Pack A: Pack B) for metallic colours			
	Pot Life	1½ Hrs @ 25°C			
	Finish	Satin/ Gloss			
	Theoretical Coverage	8m <sup>2</sup> /L at 50 microns (125 Microns WFT)			
	Volume Solids	<40%			
	Recommended DFT	Minimum 50 microns dry film thickness (125 Microns WFT)			
	Usual No. of Coats	1 – 2 coats			
	Primer Required	Yes			
	Colour	Clear or pigmented to any colour, including metallic and micaceous iron oxide finishes. Minimum order quantities apply for metallic and MIOX finishes			
	Product Weight	1.047Kg/Litre			
	VOC Content	<50 g/L Part A + Standard Hardener <80 g/L Part A + Easy Mix Hardener			
ENGINEERING DATA	Abrasion Resistance	Very good			
	Flexibility	Very good			
	Chemical Resistance	Excellent to a wide range of chemicals			
	Dry heat Resistance	120°C			
	Solvent Resistance	Excellent			
	Salt Spray Resistance	Good			
	Durability	Excellent NB It is best to overcoat E8480 orange and reds with E8480 Clear for maximum durability			
CURING DATA	Substrate Temp.(°C)	Touch Dry	Hard Dry	Full Cure	Recoat Min
	10 °C				2 hrs
	25 °C	45 min	24 hrs	7 days	45 min
	40 °C				20 min
	Note	Two coats can be applied wet on wet using minimum recoat times			
APPLICATION DATA	Mixing	Pack A & B must be power stirred together thoroughly without generating excess foam, until liquid is consistent and lump free. We recommend a stirrer of at least 2000rpm.			
	Brush/Roller	Thin with 10% water and mix thoroughly. Additional coats may be required to attain the specified thickness (A & I Coatings technical staff can advise on the most appropriate equipment for a specific task. Trial sample area if in any doubt).			

	Spray	Thin with up to 20% water and mix thoroughly. Apply in multiple wet coats overlapping each pass by 50%.
	Cleaning	Water.
	Typical Specification	<u>Concrete or masonry:</u> 1. Two coats Envirothane 2100 to colour 2. Two coats Enviroflon 8480 Gloss or Satin
SURFACE PREPARATION	All Surfaces	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.
	Aluminium, Galvanised Steel & Zinalume	Remove oil and excess grease with mild detergent or with sugar soap. Slightly roughen the surface with the help of sanding or light whip blast coat 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 Enviroflon 8480 may give good adhesion, a test patch is always necessary 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 1627.1-9. Apply A & I Coatings specified primer depending on corrosive environment with 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 18L 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 Safety Data Sheet for Enviroflon 8480. Users should familiarize 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. 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](mailto:helpdesk@aicoatings.com) Visit our website for more products: [www.aicoatings.com](http://www.aicoatings.com)

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