

VITREFLON 790



Two Pack High Solids Fluoropolymer

Technical Data Sheet Number 1003

PRODUCT DESCRIPTION	<p>A & I Coatings VITREFLON 790 is a high performance high solids two pack fluoropolymer resin base top coat that can cure at room temperature or under low bake conditions. This gives excellent UV resistance and weathering performance. It has good application properties and chemical resistance, and complies with relevant Graffiti Resistance Standards. The FEVE technology lowers the lifetime maintenance cost of coating in a variety of environments.</p>					
USES & BENEFITS	<ul style="list-style-type: none"> Fascias and facades Bridges and towers Chemical Plants High capital cost structures 			<ul style="list-style-type: none"> Wind Turbines Structural Steel and Roofing 		
	<p><u>Benefits</u></p> <ol style="list-style-type: none"> Excellent weathering performance. Excellent corrosion resistance when used in conjunction with suitable anti-corrosive primers. Outstanding colour and gloss retention High solids for maximum application efficiency 	<p><u>Limitations</u></p> <ol style="list-style-type: none"> Maximum achievable gloss level is 85% Some red and orange pigments may benefit from an overcoat of clear due to the nature of the pigment. 				
PHYSICAL PROPERTIES	Vehicle Type	Modified Fluoropolymer				
	Hardener	Isocyanate				
	Mixing Ratio	4:1(Part A : Part B) by Volume				
	Pot Life	2 hours at 25°C using standard hardener, 1.5 hours at 25°C using medium hardener and 1 hour at 25°C using fast hardener				
	Finish	Gloss, satin and matt				
	Theoretical Coverage	12.3m ² /Litre @ 50 microns theoretical				
	Volume Solids	Approx. 62% dependant on pigmentation				
	Recommended DFT	50 - 125 microns DFT				
	Usual No. of Coats	1 – 2 coats wet on wet				
	Colour	Any colour including metallic finishes				
	Pigmentation	Various				
	Primer Required	Yes, dependant on substrate. Contact A & I Coatings for specific applications				
	Product Weight	1.25 ~ 1.45Kg/Litre				
ENGINEERING DATA	Abrasion Resistance	Excellent resistance to scrubbing and sand abrasion				
	Flexibility	Permanent flexibility - adequate for normal substrate movement				
	Bacterial Resistance	Excellent				
	Chemical Resistance	Excellent resistance to organic and inorganic acids				
	Dry Heat Resistance	Excellent				
	Solvent Resistance	Good				
	Durability	Outstanding				
	Salt Spray Resistance	Excellent				
CURING DATA	Substrate Temp.(°C)	Touch Dry	Dry to Handle	Full Cure	Recoat Min	Pot Life
	5 °C	10 Hrs	48 Hrs	14 Days	4 Hrs	4 Hrs
	15 °C	8 Hrs	36 Hrs	10 Days	4 Hrs	2.5 Hrs
	25 °C	4 Hrs	24 Hrs	7 Days	2 Hrs	2 Hrs
	35 °C	2 Hrs	18 Hrs	5 Days	1 Hr	1.5 Hrs
	Note	The above curing times and pot life will halve if using fast hardener. Fast hardener is not recommended when the temperature is over 15°C. Medium Hardener is also available and will reduce curing times by 25%. Recoat: Two coats can be applied wet on wet.				

APPLICATION DATA	Mixing	Mix Pack A and Pack B in ratio 4: 1 by volume and stir thoroughly with a power drill mixer.
	Application	Air atomisation, airless, air assisted airless, brush or roller.
	Cleaning	V102 Cleaning Thinners.
	Thinning	V111 Medium Thinners.
	Typical Specification	Contact A & I Coatings for specific Specifications, dependant on substrate.
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. Steel substrates are to be abrasive blasted to a minimum AS1627.4 Class 2.5, leaving a blast profile of 40-70 microns.
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 and delays.
PACKING & STORAGE	Packing	Available in 5 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 Vitreflon 790. Users should familiarise themselves with all the safety aspects of the product prior to usage.</p> <p>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.</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.