VITREFLON 790

TECHNICAL DATA SHEET

Two Pack High Solids Fluoropolymer

A&I COATINGS

A & I Coatings VITREFLON 790 is a high-performance high solids two pack fluoropolymer resin base topcoat 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.

USES & BENEFITS	• Fascias and facades • Bridges and towers • Chemical Plants • High capital cost structures • Wind Turbines • Structural Steel and Roofing				
	Benefits 1. Excellent weathering performance. 2. Excellent corrosion resistance when used in conjunction with suitable anti-corrosive primers. 3. Outstanding colour and gloss retention 4. High solids for maximum application efficiency				
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 (standard hardener)			
	Finish	Gloss and Satin			
	Theoretical Coverage	12.3m2/Litre @ 50 microns theoretical			
	Volume Solids	Approx. 62% dependent on pigmentation			
	Recommended DFT	50 - 125µm DFT			
	Usual No. of Coats	1 – 2 Coats wet on wet			
	Colour	Any colour including metallic finishes			
	Pigmentation	Various			
	Product Weight	1.25-1.45 Kg/L			
	Primer required	Yes			
ENGINEERING DATA	Abrasion Resistance	Excellent resistance to scrubbing and sand abrasion			
	Solvent Resistance	Good			
	Flexibility	Permanent flexibility - adequate for normal substrate movement			
	Bacterial Resistance	Excellent			
	Dry Heat	Excellent			
	Chemical Resistance	Excellent resistance to organic and inorganic acids			
	Durability	Outstanding			
	Salt Spray Resistance	Excellent			
CURING DATA	Substrate Temp.(ºC)	Surface Dry	Dry to Handle	Full Cure	Recoat Min
	5°C	10 Hrs	48 Hrs	14 Days	NA
	15°C	8 Hrs	36 Hrs	10 Days	4 Hrs
	25°C	4 Hrs	24 Hrs	7 Days	2 Hrs
	35°C	2 Hrs	18 Hrs	5 Days	1 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 15ºC. Medium Hardener is also available and will reduce curing times by 25%.				

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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.
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 commences 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 kits. 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.
ADDITIONAL DETAILS	Suitable Primer	V560, V586
	Suitable Intermediate Coat	V419, V416, V425
HEALTH & SAFETY	All applicable statutory regulations must be observed in the application of this product. Users must first read the Safety Data Sheet for V790. Users should familiarize themselves with all the safety aspects of the product prior to usage	

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 information, phone our Customer Service Centre.