

# Two Pack High Solids Fluoropolymer Coating

## VITREFLON 790

**PRODUCT DESCRIPTION:** 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. The 'State of the Art' technology lowers the lifetime maintenance cost of coating in a variety of environments.

**TYPICAL APPLICATIONS:**

- Fascias and facades
- Bridges and towers
- Chemical Plants
- High capital cost structures
- Wind Turbines
- Structural Steel and Roofing

**TECHNICAL INFORMATION**

**Vehicle Type** : Modified Fluoropolymer.  
**Hardener** : Isocyanate.  
**Pigmentation** : Various  
**Mixing Ratio** : 4:1(Part A : Part B) by Volume.  
**Pot life** : 2 hours at 25°C using standard hardener and 1 hour at 25°C using fast hardener  
**Finish** : Gloss or satin.  
**Colour** : Any colour including metallic finishes.  
**Drying times** :

**Curing Table using standard hardener**

Substrate Temp.(°C)	Touch Dry	Dry to Handle	Full Cure	Pot Life
5	10 hrs	48 hrs	14 Days	4 hrs
15	8 hrs	36 hrs	10 Days	2.5 hrs
25	4 hrs	24 hrs	7 Days	2 hrs
35	2 hrs	18 hrs	5 Days	1.5 hrs

\*The above curing times and pot life will halve if using fast hardener. Fast hardener is not recommend when the temperature is over 15°C.

**Recoat time** : Two coats can be applied wet on wet. A guide for flash off times using standard hardener is as follows:  
**Recoat Time (minimum)** : 15°C      25°C      35°C  
    4 Hrs      2 Hrs      1 Hr  
**Primer Required** : Yes, dependant on substrate. Contact **A & I Coatings** for specific applications.  
**Theoretical Coverage** : 12.3m<sup>2</sup>/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.  
**Flexibility** : Permanent flexibility - adequate for normal substrate movement.  
**Abrasion Resistance** : Excellent resistance to scrubbing and sand abrasion.  
**Bacterial Resistance** : Excellent.  
**Chemical Resistance** : Excellent resistance to organic and inorganic acids.  
**Dry heat Resistance** : Excellent.  
**Solvent Resistance** : Good.  
**Salt Spray Resistance** : Excellent.  
**Thinning** : V111 Medium Thinners.  
**Durability** : Outstanding.  
**Product weight** : 1.25 ~ 1.45Kg/Litre.

**MERITS:**

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

**LIMITATIONS:**

1. Maximum achievable gloss level is 85%

**APPLICATION DATA**

- Mixing** : Mix Pack A and Pack B in ratio 4: 1 by volume and stir thoroughly.
- Equipment** : Air atomisation, airless, air assisted airless, brush or roller.
- Cleaning** : V102 Cleaning Thinners.
- Typical Specification** : Contact **A & I Coatings** for specific Specifications, dependant on substrate.

**SURFACE PREPARATION:**

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** : 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 AND SAFETY** : 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.

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 site 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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