

## Two Pack Fluoropolymer Coating VITREFLON 700

**PRODUCT DESCRIPTION:** A & I Coatings **VITREFLON 700** is a unique two pack fluoropolymer resin based (FEVE) top coat that can cure at room temperature or under low bake conditions. Vitreflon 700 gives excellent UV resistance and weathering performance and has very good application properties. This technology lowers the lifetime maintenance cost of coatings in a variety of environments.

V700 HB or High Build is also available and may be more suitable for some applications.

### TYPICAL APPLICATIONS:

- Fascias and facades
- High capital cost structures
- Bridges
- Towers
- Wind turbines
- Chemical plants
- Structural steel and roofing
- Other uses include coating of substrates such as copper, aluminium, plastic and glass. V700 is suitable practically wherever excellent durability and aesthetic appearance with good chemical resistance is required, with the added advantage of not requiring oven baking.

### TECHNICAL INFORMATION

<b>Vehicle Type</b>	: FEVE Fluoropolymer.
<b>Hardener</b>	: Isocyanate.
<b>Pigmentation</b>	: Various.
<b>Mixing Ratio</b>	: 4:1(Part A: Part B) by Volume.
<b>Pot life</b>	: 4 hours at 25°C, less at higher temperatures.
<b>Finish</b>	: Gloss, satin, metallic or pearl. Note: A coat of clear over V700 Metallic is recommended for ultimate durability.
<b>Colour</b>	: Unlimited colour range, including metallic.
<b>Dry time</b>	: Touch dry 45 mins @25°C Dry to handle 24 hours @25°C. Hard enough to handle overnight but progressively cures over 7 days. Full cure 7 days @25°C
<b>Recoat time</b>	: Flash off time: 4 – 8 minutes between coats at 25°C.
<b>Primer Required</b>	: Yes, dependant on substrate. Contact <b>A &amp; I Coatings</b> for specific applications.
<b>Theoretical Coverage</b>	: 6 m <sup>2</sup> /Litre@50 microns theoretical.
<b>Volume Solids</b>	: Approx 25 - 32% dependant on pigmentation. HB or High Build 31 – 38%
<b>Recommended DFT</b>	: 30 - 60 microns DFT.
<b>Usual no. of coats</b>	: 1 – 2 coats wet on wet.
<b>Flexibility</b>	: Permanent flexibility - adequate for any normal substrate movement.
<b>Abrasion Resistance</b>	: Excellent resistance to scrubbing and sand abrasion. Taber abrasion test to AS/NZ 1580.403.2-2006 CS17 Wheel 1000 cycles average 79 mg loss.
<b>Impact Resistance</b>	:ASTM D2794 Pass
<b>Bacterial Resistance</b>	: Excellent.
<b>Chemical Resistance</b>	:
10% Sodium Hydroxide	: Little Change
10% Hydrochloric Acid	: No Change
<b>Dry heat Resistance</b>	: Excellent.

**Solvent resistance**

Diesel : No Change  
 Petrol : Little Change  
 Acetone : Not Resistant

**Salt Spray Resistance to AS2331.3.1** : Superior to polyurethane and polysiloxane with an efficient primer system.

**UV Resistance to ISO11507** : 1976 hours QUVb Gloss retention 92% (Polyurethane 18%, Polysiloxane 12%)  
 1976 hours QUVb Colour variation –dE 2.95 (Polyurethane 5.94, Polysiloxane 5.25)

**Product weight** : 1.01 ~ 1.25Kg/Litre.

**APPLICATION DATA**

**Mixing** : Mix Pack A and Pack B in the ratio 4: 1 by volume and stir thoroughly.  
**Equipment** : Air atomisation, airless, air assisted airless, HVLP (**A & I Coatings** technical staff can assist in this area).  
**Cleaning** : V102 Cleaning Thinners.  
**Thinning** : V111 Medium Thinners.  
**Typical Specification** : Contact **A & I Coatings** for specific Specifications, dependant on substrate.

Curing Table				
Substrate Temp.(°C)	Touch Dry	Dry to Handle	Full Cure	Pot Life
5	2 hrs	48 hrs	14 Days	8 hrs
15	1 hr	36 hrs	10 Days	6 hrs
25	45 mins	24 hrs	7 Days	4 hrs
35	30 mins	18 hrs	5 Days	3 hrs

**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.

**CFC and Cementitious Board**

All surfaces to be structurally sound and free of contamination, particularly salt deposits. Ensure surface is dry and free of all sand, dust, oil, grease and moisture before application of primer – Vitrethane 555 or similar.

**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 700. 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**.

SEPTEMBER 2017 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.