

VITREFLON 700

TECHNICAL DATA SHEET

Two Pack Fluoro Polymer Coating



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.

USES & BENEFITS	• Fascia's and facades • High capital cost structures • Bridges and Towers • Wind turbines / Chemical plants / Structural steel and roofing • Other uses include coating of substrates such as composite, copper, aluminium, plastic and glass.				
PHYSICAL PROPERTIES	Vehicle Type	FEVE Fluoropolymer			
	Hardener	Isocyanate			
	Mixing Ratio	4:1(Part A: Part B) by Volume with Fast Hardener 10:1(Part A: Part B) by Volume with Slow HS Hardener			
	Pot Life	4 hours at 25°C, less at higher temperatures			
	Finish	Gloss, satin, metallic or pearl			
	Theoretical Coverage	6 m ² /Litre@50 microns theoretical			
	Volume Solids	Approx. 25 - 32% dependant on pigmentation			
	Volume Solids HB	High Build 31 - 38%			
	Recommended DFT	50 - 50 microns			
	Primer Required	Yes, dependant on substrate. Contact A & I Coatings for specific applications			
	Usual No. of Coats	2 coats wet on wet will achieve 50 - 70 microns			
	Pigmentation	Various			
	Colour	Unlimited colour range, including metallic			
	Product Weight	1.01 ~ 1.25Kg/Litre			
	Note: A coat of clear over V700 Metallic and some reds and oranges is recommended for ultimate durability. Colour: Unlimited colour range, including metallic				
ENGINEERING DATA	Abrasion Resistance	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			
	Impact Resistance	ASTM D2794 Pass			
	Bacterial Resistance	Excellent			
	Chemical Resistance	10% Sodium Hydroxide: Little Change 10% Hydrochloric Acid : No Change			
	Dry Heat Resistance	Excellent			
	Solvent Resistance	Diesel: No Change/Petrol: Little Change/ Acetone: Not Resistant			
	Flexibility	Permanent flexibility - adequate for any normal substrate movement			
	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)				
CURING DATA	Substrate Temp.(°C)	Touch Dry	Dry to Handle	Full Cure	Pot Life
	5 °C	2 hrs	48 hrs	14 days	8 hrs
	15 °C	1 hr	36 hrs	10 days	6 hrs
	25 °C	45 min	24 hrs	7 days	4 hrs
	35 °C	30 min	18 hrs	5 days	3 hrs
	Note: Recoat: Recoat: Flash off time: 2 - 6 minutes between coats at 25°C. If higher film build required, leave till solvent out of coating, normally 2 - 4 hours. If longer than 48 hours, sand lightly to achieve a mechanical bond.				

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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.
	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.
APPLICATION DATA	Mixing	Mix Pack A and Pack B in the ratio 4: 1 by volume and stir thoroughly.
	Application	Air atomisation, airless (13 thou tip recommended) , air assisted airless, HVLP.
	Cleaning	V102 Cleaning Thinners
	Thinning	V111 Medium Thinners
	Typical Specification	Contact A & I Coatings for specific Specifications, dependant on substrate.
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.
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	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 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 Visit our website for more products: www.aicoatings.com



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