VITREFLON 700

Two Pack Fluoro Polymer Coating



Technical Data Sheet Number072/2

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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.							
USES & BENEFITS	Fascia's and facades							
OJEJ & DENETTIJ	High capital cost structures							
	Bridges and Towers							
	-							
	Wind turbines / Chemical plants / Structural steel and roofing Other uses include coating of substrates such as copper aluminium, plastic and							
	Other uses include coating of substrates such as copper, aluminium, plastic and glass							
	glass.							
PHYSICAL PROPERTIES								
THISICALTROPERIES	Vehicle Type	FEVE Fluoropolymer						
	Hardener	Isocyanate						
	Mixing Ratio	4:1(Part A: Part B) by Volume						
	Pot Life	4 hours at 25°C, less at higher temperatures						
	Finish	Gloss, satin, metallic or pearl						
	Theoretical Coverage Volume Solids	6 m2/Litre@50 microns theoretical						
		Approx. 25 - 32% dependant on pigmentation						
	Volume Solids HB	High Build 31 – 38%						
	Recommended DFT	30 - 60 microns						
	Primer Required	Yes, dependant on substrate. Contact A & I Coatings for specific applications						
	Usual No. of Coats	1 – 2 coats wet on wet						
	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						
	Solvene Resistance	Resistant						
	Flexibility	Permanent flexibility - adequate for any normal substrate						
	Calt Cara Darietara	movement Cuparior to polygrathana and polygilogopa with an officient						
	Salt Spray Resistance to AS2331.3.1	Superior to polyurethane and polysiloxane with an efficient primer system						
	UV Resistance to	1976 hours QUVb Gloss retention 92% (Polyurethane 18%,						
	ISO11507	Polysiloxane 12%)						
		1976 hours QUVb Colour variation –dE 2.95 (Polyurethane 5.94,						
		Polysiloxane 5.25)						

CURING DATA	Substrate Temp.(ºC)	Touch Dry	Dry to Handle	Full Cure	Pot Life		
	5 ºC	2 hrs	48 hrs	14 days	8 hrs		
	15 ºC	1 hr	36 hrs	10 days	6 hrs		
	25 ºC	45 min	24 hrs	7 days	4 hrs		
	35 ºC	30 min	18 hrs	5 days	3 hrs		
	Note	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,					
		achieve a mechanical bond.					
APPLICATION DATA	Mixing	Mix Pack A and Pack B in the ratio 4: 1 by volume and stir					
		thoroughly.					
	Application	Air atomisation, airless, air assisted airless, HVLP.					
	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.					
	CFC and	All surfaces to b	All surfaces to be structurally sound and free of contamination,				
	Cementitious Board	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	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,					
			d it is advised that after				
		prolonged stoppages work recommences with freshly mixed					
		units.					
	Clean Up	Clean all equipment after use with A & I Coatings					
			cleaner. It is good	•			
			equipment during		_		
			of cleaning will de		• •		
		·	d elapsed time, in	_			
PACKING & STORAGE	Packing		20L packs. For av	allability of othe	er sizes,		
		contact A & I Co					
	Storage		ored in sealed cont	•	m heat and		
115 A 1 T 1 1 0 C A 5 5 T 1/	All 1: 11	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							

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.

November 2019 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.