

VITRETHANE 650

TECHNICAL DATA SHEET

Two Pack Isocyanate Free Polyurethane



A & I Coatings **VITRETHANE 650** is a solvent based two pack isocyanate free polyurethane with very good exterior durability and excellent application properties.

USES & BENEFITS	• Original equipment manufacture • Steelwork • Trucks and buses • Mining infrastructure • Suitable for toys and playground equipment in accordance with AS1924.1 • Machinery • Rolling Stock				
	Benefits		3. Fast Cure Times		
	1. High-performance isocyanate free polyurethane. Patent No 2021218019		4. Meets the requirements of AS3750.6 Paints for steel structures full gloss polyurethane (two-pack)		
	2. Brilliant gloss		5. Australian Made and owned.		
PHYSICAL PROPERTIES	Vehicle Type	Based on Polyurethane resin			
	Hardener	Proprietary			
	Mixing Ratio	4 : 1 (Part A : Part B) by Volume			
	Pot Life	4 Hrs @20°C (Do not use beyond pot life)			
	Finish	Gloss & Satin			
	Theoretical Coverage	10 m ² / Litre/ 50µm DFT			
	Volume Solids	50 % (White)			
	Recommended DFT	50-100 µm DFT			
	Usual No. of Coats	1 – 2 Coats			
	Colour	Unlimited Colour Range			
	Pigmentation	Titanium Dioxide and other organic and inorganic pigments			
	Product Weight	Pack A 0.96 – 1.28Kg/L; Pack B 0.99Kg/L			
	VOC Content	393.76g/L			
ENGINEERING DATA	Abrasion Resistance	Excellent resistance to scrubbing and sand abrasion			
	Flexibility	Excellent flexibility - adequate for normal substrate movement			
	Solvent Resistance	Moderate resistance to solvents and oils			
	Dry Heat	Good			
	Bacterial Resistance	Good			
	Chemical Resistance	Good			
	Salt Spray Resistance	Good			
	Durability	Very Good			
CURING DATA	Substrate Temp.(°C)	Surface Dry	Through Dry	Full Cure	Recoat Min
	15°C	30 Min	8 Hrs	10 Days	30 Mins
	25°C	15 Min	6 Hrs	7 Days	15 Mins
	30°C	10 Min	4 Hrs	5 Days	10 Mins

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APPLICATION DATA	Mixing	Mix Part A and Part B in a ratio of 4:1 by volume and stir thoroughly
	Application	Airless, air assisted airless, electrostatic, HVLP, air atomisation. (A & I Coatings technical staff can advise on the most appropriate equipment for a specific task). Brush and roller are only suitable for small areas.
	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. Oil, grease, dirt etc. must be removed with detergent and water blasting in accordance with AS 1627.1.
	Aluminium, Gal Steel & Zincalume	Remove oil and grease with mild detergent or with solvent to AS 1627.1. Slightly roughen the surface by sanding or light whip blasting with a non-metallic abrasive
	Steel	Degrease the surfaces and remove all weld spatter and flux. Grind sharp edges and corners. For best results abrasive blast clean to specified/recommended AS 1627-1 to 10 class Sa 2.5. Apply A & I Coatings VITRETHANE 560 Primer to specification. Please consult A & I Coatings Technical team for particular specifications.
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. 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 (ambient temperature). Subject to re- inspection thereafter.

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HEALTH & SAFETY

All applicable statutory regulations must be observed in the application of this product. Users must first read the Safety Data Sheet for V650. 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.



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