VITRETHANE 470HS

TECHNICAL DATA SHEET

High Solids Two Pack High-Gloss Direct to Metal Polyurethane

A & I Coatings **VITRETHANE 470HS** is a High Solid two-pack polyurethane with good adhesion and corrosion resistance properties for ferrous and non-ferrous metals. Vitrethane 470HS can be used over an epoxy primer or intermediate coat as part of a 2 or 3 coat system.

USES & BENEFITS	• Blasted Steel Structures • Machinery and equipment overhauls • Earthmoving attachments • Truck and Trailer bodies • Agricultural equipment • Mining Equipment.				
	Benefits • Excellent adhesion to a variety of suitably prepared substrates • Positive curing even at low temperatures				
PHYSICAL PROPERTIES	Vehicle Type	Acrylic Polyol			
	Hardener	Isocyanate			
	Ratio	5:1 (Part A to Part B)			
	Pot Life	3hr +/- 0.5hr @20 ºC (depending on pigmentation)			
	Finish	Full Gloss			
	Theoretical Coverage	8.0 m²/L @ 75 µm DFT or 124 µm WFT			
	Volume Solids	60.5 ± 2 %			
	Recommended DFT	75µm – 125 DFT			
	Usual No. of Coats	1-2			
	Colour	Available in a wide range of colours			
	Pigmentation	Various			
ENGINEERING DATA	Abrasion Resistance	Good			
	Flexibility	Good			
	Weather Resistance	Good			
	Corrosion Resistance	Good			
	Durability	Good			
CURING DATA	Substrate Temp.(ºC)	Surface Dry	Dry to Handle	Full Cure	Recoat
	25°C, Medium Part B	60 Minutes	8 Hours	7 Days	Minimum 2 Hours
APPLICATION DATA	General	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.			
	Mixing	Stir Part A before use and mix with V470HS Part B at 5:1 ratio, by volume.			
	Application	Airless, HVLP, Air atomisation			
	Cleaning	Vitrethane 102 Cleaning Thinners or Vitrethane 111 Medium Thinners.			
	Thinning	V111 Medium Thinners, or V112 Retarder Thinners. Up to 20%.			

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SURFACE PREPARATION	General	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, galvanised steel & Zincalume	Remove oil and grease with mild detergent or with solvent to AS 1627.1. Prepare surface to a minimum of 1627.2. Slightly roughen the surface by sanding or light whip blasting with a non-metallic abrasive. Apply suitable primer according to specification.
	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. Prepare surface to a minimum of 1627.2. Apply A & I Coatings V470HS DTM Coating to specification. Please consult A & I Coatings Technical Team for specifications. Surface prep note: Surface profile to be 20-30 microns.
WORK STOPPAGES	General	Do not allow material to remain in hoses, guns 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 commences 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 working day. Frequency of cleaning will depend upon amount sprayed, temperature and elapsed time, (including delays).
PACKING & STORAGE	Packing	Available in 4.5 or 18L kits. For availability of other sizes, contact A & I Coatings.
	Storage	12 months if stored indoors, in original 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 Safety Data Sheet for V470HS. 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-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