

# VITRETHANE 440

## TECHNICAL DATA SHEET

Single Pack Etch Primer



A & I Coatings **VITRETHANE 440** is a single pack self-etching primer/pretreatment for adhesion to both ferrous and nonferrous substrates, various plastics and laminated surfaces. V440 is suitable for applications where a combination of fast drying, adhesion, abrasion resistance and overcoat ability is required. V450 or V580 are recommended where increased corrosion resistance is required. CASA Approved for aeroplanes.

<b>USES &amp; BENEFITS</b>	• Aluminium metal spray • Copper and its alloys • Stainless steel • Smooth cementitious surfaces • Metal fabrication • Cabinets • Structural steel • Aluminium sheet and extrusions • Galvanised steels • Trusses • Gates • Tanks • Cranes		
	1. Excellent adhesion to ferrous and non-ferrous metals. 2. One pack convenience. 3. Corrosion resistant in light duty applications. 4. One coat finish for interior use.	5. Rapid drying and overcoating times 6. Suitable for top coating with a variety of single and 2-pack products 7. May be used over several plastics and laminated surfaces	
<b>PHYSICAL PROPERTIES</b>	Vehicle Type	Epoxy resin	
	Pot Life	NA	
	Finish	Satin	
	Theoretical Coverage	5m <sup>2</sup> / litre / 20 microns dry film. (200µm WFT)	
	Volume Solids	10 ± 2 %	
	Recommended DFT	12 - 30µm dependent on specification (Do not over apply per coat as excessive thickness results in poor adhesion and extended drying time)	
	Usual No. of Coats	1 single light coat for etching, One double coat for priming.	
	Colour	Grey or White	
	Pigmentation	Inhibitive pigment	
	Product Weight	0.93 Kg/L	
<b>ENGINEERING DATA</b>	Abrasion Resistance	Good	
	Immersion	Not Recommended	
	Chemical Resistance	Dependent upon selection of topcoat	
	Solvent Resistance	Dependent upon selection of topcoat. Good with hydrocarbons. Not recommended for alcohols, esters or ketones	
	Dry Heat Resistance	Up to 120°C	
	Durability	Good	
<b>CURING DATA</b>	Substrate Temp.(°C)	Surface Dry	Recoat Min
	25°C	3-5 minutes	1 hour
	Maximum Recoat Time 3 Months		

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<b>APPLICATION DATA</b>	Mixing	Stir thoroughly until uniform before use.
	Application	Conventional Spray: Thin up to 10% by volume. Apply at air atomising temperature of 350-420kPa. Airless Spray: Thinning not required. Use tip orifice 0.275-0.325 mm at 14-17 MPa atomising pressure. Electrostatic Spray, roller or brush suitable for small areas only.
	Cleaning	V102 Cleaning Thinners.
	Thinning	Not required, however may be reduced up to 10% by volume using V104 Fast Thinners.
<b>SURFACE PREPARATION</b>	All Surfaces	All surfaces must 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 AS1627.1.
	Aluminium, galvanised steel & Zinalume	Remove oil and grease with mild detergent or solvent to AS 1627.1. Slightly roughen the surface by sanding or light whip blasting with a non-metallic abrasive. Apply suitable intermediate coat according to specification.
	Steel	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. Apply suitable intermediate coat according to specification.
<b>WORK STOPPAGES</b>	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 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).

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<b>PACKING &amp; STORAGE</b>	Packing	Available in 4 or 20L pails. 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.
<b>HEALTH &amp; SAFETY</b>	All applicable statutory regulations must be observed in the application of this product. Users must first read the Safety Data Sheet for V440. 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