

# VITRETHANE 440



## Single Pack Etch Primer

Technical Data Sheet Number 034

PRODUCT DESCRIPTION	A & I Coatings <b>VITRETHANE 440</b> is a single pack self etching primer/pretreatment for adhesion to both ferrous and non ferrous substrates, various plastics and laminated surfaces. V440 is suitable for applications where combination of fast drying, adhesion, abrasion resistance and overcoatability is required. V450 or V580 are recommended where increased corrosion resistance is required. CASA Approved for aeroplanes.				
USES & BENEFITS	<p>As a pretreatment, blast primer or holding primer on:</p> <ul style="list-style-type: none"> <li>• Aluminium metal spray</li> <li>• Copper and its alloys</li> <li>• Stainless steel</li> <li>• Smooth cementitious surfaces</li> <li>• Metal fabrication</li> <li>• Cabinets</li> <li>• Structural steel</li> <li>• Aluminium sheet and extrusions</li> <li>• Galvanised steels</li> <li>• Trusses</li> <li>• Gates</li> <li>• Tanks</li> <li>• Cranes</li> </ul>				
	<p><u>Benefits</u></p> <ol style="list-style-type: none"> <li>1. Excellent adhesion to ferrous and non-ferrous metals</li> <li>2. One pack convenience</li> <li>3. Corrosion resistant in light duty applications</li> <li>4. One coat finish for interior use</li> <li>5. Rapid drying and overcoating times</li> <li>6. Suitable for topcoating with a variety of single and 2-pack products</li> <li>7. May be used over several plastics and laminated surfaces</li> </ol>	<p><u>Limitations</u></p> <ol style="list-style-type: none"> <li>1. Not suitable for long term extended protection without overcoating. For a severe marine environment it should be overcoated within a week. Durability of up to 3 months is expected in mild marine environment. With reasonable storage conditions coated substrate will be protected for over a year.</li> <li>2. Not suitable for immersion</li> <li>3. Do not apply when humidity is over 80%</li> </ol>			
PHYSICAL PROPERTIES	Vehicle Type	Polyvinyl butyral			
	Pot Life	Not applicable			
	Finish	Satin			
	Theoretical Coverage	5m <sup>2</sup> /litre/20 microns. (100µm WFT)			
	Volume Solids	10%			
	Recommended DFT	12 - 30µm dependant on specification (Do not over apply per coat as excessive thickness results in poor adhesion and extended drying time)			
	Usual No. of Coats	One to two			
	Colour	Grey or white			
	Pigmentation	Inhibitive pigment			
	Product Weight				
Note					
ENGINEERING DATA	Abrasion Resistance	Good			
	Immersion	Not recommended			
	Chemical Resistance	Dependent upon selection of topcoat			
	Dry Heat Resistance	Up to 120°C			
	Solvent Resistance	Dependent upon selection of topcoat. Good to hydrocarbons. Not recommended for alcohols, esters or ketones			
	Durability	Good			
CURING DATA	Substrate Temp.(°C)	Touch Dry	Dry to Handle	Full Cure	Recoat min
	25 °C	3 – 5 Min	20 Min		1 Hr
	Note	Recoat time 3 months maximum			

APPLICATION DATA	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 10% V104 Fast 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, galvanised 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. Apply suitable intermediate coat according to specification.
	Steel structures Light Duty	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 440 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 4 or 20L pails. For availability of other sizes, contact A & I Coatings.
	Storage	12 months if stored in sealed containers away from heat & 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 Vitrethane 440. 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.

May 2019 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.