

VITRESET 416 MIOX



Two Pack High Build Epoxy Coating

Technical Data Sheet Number 123

PRODUCT DESCRIPTION	<p>A & I Coatings VITRESET 416 MIOX is a high performance epoxy intermediate / base coat that gives excellent adhesion and corrosion barrier properties. Micaceous Iron Oxide coatings are renowned for their ability to stand the test of time, and withstand both moisture ingress and substrate movement to ensure long-term asset protection.</p>						
USES & BENEFITS	<p>Long term protection to steel for a wide range of industrial applications</p> <ul style="list-style-type: none"> ▪ Factories/Warehouses ▪ Chemical plants ▪ Food processing plants and abattoirs ▪ Bridges and Marine Environments ▪ Pulp and paper plants ▪ Tank exteriors ▪ Effluent Water treatment plants ▪ Aircraft hangars <table border="1" data-bbox="416 627 1497 1097"> <thead> <tr> <th data-bbox="416 627 874 728"><u>Benefits</u></th> <th data-bbox="874 627 1497 728"><u>Limitations</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="416 728 874 1097"> <ol style="list-style-type: none"> 1. Excellent barrier to water and oxygen 2. Excellent adhesion to wide range of Epoxies and Zinc Rich primers 3. Can be used for immersion in water or sewerage 4. Adequate flexibility for normal substrate movement </td> <td data-bbox="874 728 1497 1097"> <ol style="list-style-type: none"> 1. Not recommended for immersion in acids, alkalis or solvents 2. Not to be applied to thermoplastic coatings 3. Will chalk when continuously exposed to sunlight & UV light. The chalking in no way impairs the coating performance 4. Temperature at time of application should be at least 10°C 5. Humidity should be less than 75% </td> </tr> </tbody> </table>			<u>Benefits</u>	<u>Limitations</u>	<ol style="list-style-type: none"> 1. Excellent barrier to water and oxygen 2. Excellent adhesion to wide range of Epoxies and Zinc Rich primers 3. Can be used for immersion in water or sewerage 4. Adequate flexibility for normal substrate movement 	<ol style="list-style-type: none"> 1. Not recommended for immersion in acids, alkalis or solvents 2. Not to be applied to thermoplastic coatings 3. Will chalk when continuously exposed to sunlight & UV light. The chalking in no way impairs the coating performance 4. Temperature at time of application should be at least 10°C 5. Humidity should be less than 75%
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PHYSICAL PROPERTIES	Vehicle Type	Two component epoxy					
	Hardener	Amine					
	Mixing Ratio	4:1(Part A : Part B) by Volume					
	Pot Life	Approx. 4 hours@20°C					
	Finish	Low Gloss					
	Theoretical Coverage	3.5 m ² /L @ 200µm/coat. (DFT)					
	Volume Solids	70%					
	Recommended DFT	150-200 microns					
	Colour	Micaceous Grey					
	Pigmentation	MIO					
	Usual No. of Coats	1-2 (dependant on specification)					
	Product Weight	2.25kg/Litre Pack A, 0.944Kg/L Pack B					
	Primer Required	Yes, dependant on substrate. Contact A & I Coatings technical team for specifications					
ENGINEERING DATA	Abrasion Resistance	Excellent					
	Chemical Resistance	Acid – Good. Alkali – Good. Contact A & I Coatings for specific recommendations					
	Dry Heat Resistance	Up to 120°C					
	Solvent Resistance	Good					
	Durability	Excellent when suitably topcoated					
CURING DATA	Substrate Temp.(°C)	Touch Dry	Full Cure	Recoat Min			
	10 °C	6-8 Hrs	14 Days	7 Hrs			
	25 °C	2-4 Hrs	7 Days	4.5 Hrs			
	40 °C	1-1.5 Hrs	5 Days	1.5 Hrs			

APPLICATION DATA	Mixing	Power stir Pack A, then blend with Pack B to correct ratio. Power stir thoroughly for at least two minutes prior to use. Only mix required amount and use within the stated pot life. Thin if required for flow. In cool weather, stir and let stand for five minutes then restir.
	Application	Apply by conventional spray or airless spray (0.213 – 0.321). Brush and roller is not recommended but for small touch up work use a 10 – 13mm nap roller or brush, taking care to apply at specified coverage rate.
	Cleaning	Use V122 Epoxy Thinners.
	Thinning	If necessary thin with V122 Epoxy 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, 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.
	Repaints	All surfaces should be free from oil, grease, loose paint and other contaminants. For unusual substrates, a test patch is recommended before use.
	Steel	Degrease the surfaces and remove all weld spatter and flux. Grind sharp edges and corners. For best results abrasive blast clean to specification and apply A & I Coatings specified primer. 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 delays).
PACKING & STORAGE	Packing	Available in 10L kits. 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 VITRESET 416. Users should familiarise themselves with all the safety aspects of the product prior to use. 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, or e-mail helpdesk@aicoatings.com

Visit our website for more products: www.aicoatings.com

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