

VITRESET 419

TECHNICAL DATA SHEET

Two Pack Surface Tolerant Epoxy



A & I Coatings VITRESET 419 is a high solid, high build, surface tolerant epoxy coating. Its excellent adhesion and barrier properties render Vitreset 419 very effective in the protection of concrete and steel infrastructure. It usually forms the primer or intermediate coat of a heavy-duty paint system in combination with durable VITRETHANE or VITREFLON topcoat finishes.

USES & BENEFITS	Factories/Warehouses • Pulp and paper plants • Wastewater treatment plants • Concrete walls and floors • Chemical plants • Tank exteriors • Food processing plants and abattoirs • Bridges and Marine Environments • Aircraft hangars					
	Benefits	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 5. Complies with AS/ NZS 3750.13 6. Australian made and owned.		
PHYSICAL PROPERTIES	Vehicle Type	Two Component Epoxy				
	Hardener	Amine				
	Mixing Ratio	4 : 1 (Part A : Part B) by Volume				
	Pot Life	4 Hrs @20°C (standard hardener) 2 Hrs @20°C (fast hardener)				
	Finish	Satin				
	Theoretical Coverage	4 m ² / Litre/ 200µm DFT				
	Volume Solids	80 %				
	Recommended DFT	125-350 µm DFT				
	Usual No. of Coats	1 – 2 Coats				
	Colour	Unlimited colour range				
	Product Weight	Pack A 2.25 Kg/L; Pack B 0.944Kg/L				
	Primer required	Can be used direct to metal or concrete substrate or over specific primers. Contact A & I Coatings technical team for specifications				
ENGINEERING DATA	Abrasion Resistance	Excellent				
	Solvent Resistance	Good				
	Dry Heat	Good Up to 120°C				
	Chemical Resistance	Acid – Good. Alkali – Good. Contact A & I Coatings for specific recommendations				
	Durability	Excellent when suitably top coated				
CURING DATA (STANDARD HARDENER)	Substrate Temp.(°C)	Surface Dry	Dry to Handle	Full Cure	Recoat Min	Recoat Max
	10°C	8 Hrs	18 Hrs	12 Days	8 Hrs	7 Days
	25°C	4 Hrs	10 Hrs	7 Days	4 Hrs	4 Days
	40°C	2 Hrs	8 Hrs	7 Days	2 Hrs	2 Days

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CURING DATA (FAST HARDENER)	Substrate Temp.(°C)	Surface Dry	Dry to Handle	Full Cure	Recoat Min	Recoat Max
	10°C	8 Hrs	18 Hrs	12 Days	8 Hrs	7 Days
	25°C	4 Hrs	10 Hrs	7 Days	4 Hrs	4 Days
	40°C	2 Hrs	8 Hrs	7 Days	2 Hrs	2 Days
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 the 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).For brush and roller use a 10 – 13mm nap roller or brush, taking care to apply at specified coverage rate.				
	Cleaning	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.				
	Repainting	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.				
	Concrete	New concrete should be allowed to cure for 28 days prior to coating. Contact A&I Technical for further information.				
	Galvanised 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.				
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 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 course of the working day.				

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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 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 V419. 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