

VITREZINC 109

Zinc Rich Epoxy Primer

Technical Data Sheet Number 1001 (UK)



PRODUCT DESCRIPTION	<p>A & I Coatings VITREZINC 109 is a Two Pack Zinc Rich primer for use on blast cleaned steel to give excellent adhesion and a tough and abrasion resistant film. The rich zinc content in this coating will give good cathodic protection. V109 can be over coated with a suitable intermediate and top coat to achieve a very durable and protective coating system.</p>					
USES & BENEFITS	<p>As a primer on blast cleaned steel for:</p> <ul style="list-style-type: none"> • Structural and architectural steel in corrosive environments • Power plants and oil refineries • Touch up primer for inorganic zinc coatings • Mines and Petro-chemical plants 					
	<p><u>Benefits</u></p> <ol style="list-style-type: none"> 1. Suitable for repair of welded joints on zinc coated surfaces where abrasive blasting is precluded 2. Fast topcoat time possible 3. Subsequent coatings can be the choice of epoxy, polyurethane, acrylic, fluoropolymer or vinyl depending on area of use 	<p><u>Limitations</u></p> <ol style="list-style-type: none"> 1. This product will chalk when continuously exposed to sunlight & UV light without topcoating 2. DFT exceeding 120µm should be avoided. 3. 15 minute induction time is recommended 4. Should be applied at below 80% humidity 				
PHYSICAL PROPERTIES	Vehicle Type	Two Component Epoxy				
	Hardener	Polyamide				
	Mixing Ratio	3 : 1 by Volume				
	Pot Life	8 Hrs @23°C (Do not use beyond pot life)				
	Finish	Flat				
	Theoretical Coverage	13.2 – 7.0 m ² / Litre @ 40 – 75µm DFT (75-142µm WFT)				
	Volume Solids	53 ± 2 %				
	Flash Point	32°C				
	VOCs	368g/Litre				
	Recommended DFT	75µm DFT (142µm WFT)				
	Usual No. of Coats	1 plus stripe coat				
	Primer Required	No				
	Colour	Grey				
	Pigmentation	Metallic Zinc				
	Product Weight	2.5 Kg/Litre (after mixing)				
ENGINEERING DATA	Abrasion Resistance	Good				
	Flexibility	Good				
	Solvent Resistance	Very Good				
	Water Resistance	Excellent				
	Durability	Excellent				
	Heat resistance	Up to 200°C				
CURING DATA	Substrate Temp.(°C)	Surface Dry	Through Dry	Full Cure	Recoat Min	Recoat Max ¹
	10 °C	30 Min	2.5 Hrs	7 Days	3 Hrs	Indefinite
	23 °C	15 Min	1.5 Hrs	5 Days	2 Hrs	Indefinite
	40 °C	6 Min	50 Min	3 Days	1.5 Hrs	Indefinite
¹ Contact A&I for specific guidance on maximum overcoating intervals in various environments.						

APPLICATION DATA	General	The temperature of the substrate should be min.3° C above the dew point of the air, and min 5°C as the curing process will be considerably retarded at lower temperatures. It is recommended to measure temperature and humidity in the vicinity of the substrate.
	Mixing	Mix Part A and Part B in a ratio of 3:1 by volume and stir thoroughly
	Application	Airless spray, Brush may be used for touch up. Pressure at Nozzle – 15 Mpa min(150 kp/cm ² ,2100 psi) Nozzle tip 0.38 – 0.53 mm (0.015 – 0.021’’)
	Cleaning	SV110 Cleaning Solvent
	Thinning	SV103 Epoxy Thinners (Thinning not normally required).
SURFACE PREPARATION	Steel	Degrease the surface according to SSPC SP1 solvent cleaning. Round off rough welds and sharp edges and remove weld spatter and flux. Abrasive blast clean in accordance with ISO 8501-1 to Sa 2½ minimum. Blast to achieve a 50-90 micron anchor profile. If profile is greater, additional film thickness is required for equivalent protection. Remove abrasive residue and dust from surface.
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 8 L kits. For availability of other sizes, contact A & I Coatings.
	Storage	24 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 Material Safety Data Sheet for Vitrezinc 109. Users should familiarize 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 0044 (0)118 338 0100.	

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 0044 (0)118 338 0100. A & I Coatings (UK) Ltd, Unova House, Bennet Road, Reading RG2 0DX

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