VITREZONE 425

Two Pack High Build Epoxy Barrier Coating

Technical Data Sheet Number 142

PRODUCT DESCRIPTION

A & I Coatings **VITREZONE 425** is a high solids polyamine cured epoxy coating formulated to achieve high film builds in a single coat. **VITREZONE 425** will continue to cure underwater and is well suited to the maintenance of structures subject to tidal movements. **VITREZONE 425** is a Surface Tolerant Epoxy and may be applied to damp surfaces and steel which has gingered after blasting.

USES & BENEFITS

Long term protection of steel substrates in a wide range of industrial applications.

- Offshore Structures
- Pulp and paper plants
- Food processing plants and abattoirs
- Effluent Water treatment plants
- Bridges

Benefits	Limitations
1. Excellent barrier to water and oxygen. 2. Can be used for immersion in water or sewerage. 3. Continues to cure after immersion in water. 4. Adequate flexibility for normal substrate movement.	1. Will chalk when continuously exposed to sunlight & UV light. The chalking in no way impairs the coating performance.

PHYSICAL PROPERTIES

Vehicle Type	Two component epoxy
Hardener	Polyamine
Mixing Ratio	4:1(Part A : Part B) by Volume
Pot Life	1.5 hours@25ºC
Finish	Satin
Theoretical Coverage	2.4m²/L @ 350µm/coat. (DFT)
Volume Solids	85%
Recommended DFT	350 microns minimum, may be applied at up to 500 microns dry film thickness in a single coat.
Colour	Unlimited colour range available
Pigmentation	Colours, MIOX, Glass Flake and Aluminium Flake
Usual No. of Coats	1-2 (dependant on specification)
Primer Required	No

ENGINEERING DATA

Abrasion Resistance	Excellent
Chemical Resistance	Acid – Good. Alkali – Good. Contact A & I Coatings for specific recommendations
Dry Heat Resistance	Up to 120ºC
Solvent Resistance	Excellent
Durability	Excellent, will discolour on exterior exposure however this in no way affects product function or performance.

CURING DATA

Substrate Temp.(ºC)	Touch Dry	Full Cure	Recoat Min
10 ºC	12 Hrs	10 Days	18 Hrs
25 ºC	4 Hrs	4 Days	6 Hrs
40 ºC	1.5 Hrs	2 Days	2 Hrs

APPLICATION DATA	Mixing	Power stir Pack A, then blend with Pack B and power stir thoroughly for a minimum of three minutes. Only mix complete kits and use within the stated pot life. In temperatures under 10°C allow a 5-minute induction time after mixing Part A and B together.
	Application	Apply by airless spray using a tip size of 21-26 thou. 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. If application is done by roller, multiple coats may be required to achieve the specified film build.
	Cleaning	Use V122 Epoxy Thinners.
	Thinning	If necessary, thin with V122 Epoxy Thinners. Not normally required.
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 Sa2½. 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 20L kits. For availability of other sizes, contact A & I Coatings.
	Storage	24 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 VITREZONE 425. 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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