

VITRESET 416 MIOX

TECHNICAL DATA SHEET

Two Pack High Build Epoxy Coating



A & I Coatings VITRESET 416 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.

| | | | | |
|----------------------------------|--|--|--|------------|
| USES & BENEFITS | •Long term protection to steel for a wide range of industrial applications: •Factories/Warehouses • Pulp and paper plants • Chemical plants • Tank exteriors • Food processing plants and abattoirs • Effluent Water treatment plants • Bridges and Marine Environments • Aircraft hangars and Power Transmission. | | | |
| | 1. Australian made and owned 2. Meets the requirements of AS 2855 MIO pigmentation. 3. Complies to AS 3750.14: 1997 | | 4. Conforms to AS 2312: 2014 Systems Guides 5. Adequate flexibility for normal substrate movement 6. Low VOC 235 grams per mixed litre | |
| | | | | |
| 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 (Do not use beyond pot life) | | |
| | Finish | Low Gloss | | |
| | Theoretical Coverage | 3.5 m² / Litre/ 200µm DFT | | |
| | Volume Solids | 70 % | | |
| | Recommended DFT | 100-300 µm DFT | | |
| | Usual No. of Coats | 1 – 2 Coats | | |
| | Colour | Miox Grey, Miox Red Tone & N44 Bridge Grey, N34 Light Grey | | |
| | Pigmentation | MIOX | | |
| | Product Weight | Pack A 2.25 Kg/L; Pack B 0.944Kg/L | | |
| | Primer required | Yes, dependent on substrate. 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 | Good | | |
| | Durability | Excellent when suitably top coated | | |
| CURING DATA Standard Hardener | Substrate Temp.(°C) | Surface Dry | Full Cure | Recoat Min |
| | 10°C | 4 Hrs | 10 Days | 7 Hrs |
| | 25°C | 3 Hrs | 7 Days | 4.5 Hrs |
| | 40°C | 2 Hrs | 5 Days | 1.5 Hrs |

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| CURING DATA* Fast Hardener | Substrate Temp.(°C) | | Surface Dry | Full Cure | Recoat Min |
|-------------------------------|---|---|-------------|-----------|------------|
| | 0-5°C | | 4 Hrs | 10 Days | 5 Hrs |
| | 10°C | | 2 Hrs | 7 Days | 2 Hrs |
| | 25°C | | 1 Hr | 5 Days | 1 Hr |
| | * V416 thinned 10% with V105 thinners and applied at 75um DFT | | | | |
| 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 (0.415 – 0.519). 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 | V122 Epoxy Thinners | | | |
| | Thinning | 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. | | | |
| 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 | Available in 10L kits. For availability of other sizes, contact A & I Coatings. | | | |

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PACKING & STORAGE

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 V416. 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 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 information, phone our Customer Service Centre.



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