

VITREFLON 195

Two Pack High Solids Fluoropolymer

Technical Data Sheet Number 1003



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| PRODUCT DESCRIPTION | <p>A & I Coatings VITREFLON 195 is a high performance high solids two pack fluoropolymer resin base top coat that can cure at room temperature or under low bake conditions. This gives excellent UV resistance and weathering performance. It has good application properties and chemical resistance and complies with relevant Graffiti Resistance Standards. The FEVE technology lowers the lifetime maintenance cost of coating in a variety of environments.</p> | | |
| USES & BENEFITS | <ul style="list-style-type: none"> • Fascias and facades • Bridges and towers • Chemical Plants • High capital cost structures • Wind Turbines • Structural Steel and Roofing | | |
| | <p>Benefits</p> <ol style="list-style-type: none"> 1. Excellent weathering performance. 2. Excellent corrosion resistance when used in conjunction with suitable anti-corrosive primers. 3. Outstanding colour and gloss retention 4. High solids for maximum application efficiency | <p>Limitations</p> <ol style="list-style-type: none"> 1. Maximum achievable gloss level is 85% 2. Some red and orange pigments may benefit from an overcoat of clear due to the nature of the pigment. 3. Relative humidity should be less than 85% | |
| PHYSICAL PROPERTIES | Vehicle Type | Modified Fluoropolymer | |
| | Hardener | Isocyanate | |
| | Mixing Ratio | 4:1(Part A : Part B) by Volume | |
| | Pot Life | 45 minutes at 25°C using medium hardener | |
| | Finish | Gloss, satin and matt | |
| | Theoretical Coverage | 8.3m ² /Litre @ 75 microns theoretical | |
| | Volume Solids | Approx. 62% dependant on pigmentation | |
| | Recommended Film Thickness | Min Max | |
| | Wet Film Thickness per coat (microns) | 80 241 | |
| | Dry Film Thickness per coat (microns) | 50 150 | |
| | | Vitreset 195 (without thinners) will start to sag at 300 microns WFT. Overbuild should be kept to the minimum required in order to achieve the specified dry film thickness on all faces. In circumstances where substantial overbuild is inevitable, the coating should be applied in two coats. | |
| | Colour | Any colour including metallic finishes | |
| Pigmentation | Various | | |
| Primer Required | Yes, dependant on substrate. Contact A & I Coatings for specific applications | | |
| Product Weight | 1.25 ~ 1.45Kg/Litre | | |

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| ENGINEERING DATA | Abrasion Resistance | | Excellent resistance to scrubbing and sand abrasion | | | |
| | Flexibility | | Permanent flexibility - adequate for normal substrate movement | | | |
| | Bacterial Resistance | | Excellent | | | |
| | Chemical Resistance | | Excellent resistance to organic and inorganic acids | | | |
| | Dry Heat Resistance | | Excellent | | | |
| | Solvent Resistance | | Good | | | |
| | Durability | | Outstanding | | | |
| | Salt Spray Resistance | | Excellent | | | |
| CURING DATA | Substrate Temp.(°C) | Touch Dry | Dry to Handle | Full Cure | Recoat Min | Pot Life |
| | 5 °C | 8 Hrs | 40 Hrs | 12 Days | 2 Hrs | 1.5 Hrs |
| | 15 °C | 6 Hrs | 30 Hrs | 8 Days | 1 Hr | 1 Hr |
| | 25 °C | 4 Hrs | 24 Hrs | 7 Days | 30 mins | 45 mins |
| | 35 °C | 2 Hrs | 18 Hrs | 5 Days | 15 mins | 30 mins |
| | Note | Above curing data is when using medium hardener. Recoat: Two coats can be applied wet on wet. Note: Maximum recoat time is 14 days at 20 °C after which time surface must be abraded. Surface must be free of contamination before recoating. | | | | |
| APPLICATION DATA | Mixing | Mix Pack A and Pack B in ratio 4: 1 by volume and stir thoroughly. | | | | |
| | Application | Air Spray, Airless, brush or roller. | | | | |
| | Air Spray Settings | 1.8mm tip size Pressure at pot – 15 psi Pressure at gun – 50 psi | | | | |
| | Airless Settings | Standard airless spray equipment such as a 45:1 Graco Airless King Sprayer may be used. Pressure at Nozzle: 15 Mpa min (150 kp/cm ² ,2100 psi) Tip size: 13 - 17 thou | | | | |
| | Cleaning | Use SV110 Cleaning Solvent | | | | |
| | Thinning | Not usually required but up to 10% SV303 Medium Thinners may be used, or up to 15% SV306 Retarder Thinners if required to extend the wet edge for brushing or rolling | | | | |
| | Typical Specification | Contact A & I Coatings for specific Specifications, dependant on substrate. | | | | |
| 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. Steel substrates are to be abrasive blasted to a minimum AS1627.4 Class 2.5, leaving a blast profile of 40-70 microns. | | | | |
| 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. | | | | |

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| | 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 & STORAGE | Packing | Available in 5 or 20L packs. 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 | <p>All applicable statutory regulations must be observed in the application of this product. Users must first read the Material Safety Data Sheet for Vitreflon 195. Users should familiarise themselves with all the safety aspects of the product prior to usage.</p> <p>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.</p> | |

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.

July 2022 - THIS DATA SHEET SUPERSEDES THOSE PREVIOUSLY ISSUED.