

FROM THE LAB TO REAL WORLD APPLICATION

Third-Party Testing Results

| PROPERTY | TEST METHOD | MIN/CURRENT PERFORMANCE | CC II ULTRA | IMPROVEMENT | DESCRIPTION & RELEVANCE |
|---|--|----------------------------------|----------------------------|-------------|---|
| Adhesion (Carbon Steel) | ASTM D-4541 (SSPC-10) | 1,500psi* | >3,400 psi*** | 226% | The coating's ability to adhere to the steel substrate relates directly to its ability to protect the steel from corrosion. CorroCote® II Ultra offers significantly more adhesion than its predecessors and offers enhanced protection over a wider range of substrate surface preparation conditions. |
| Abrasion Resistance | ASTM D-4060 (CS-17 Taber, 1kg weights, 1000 revolutions) | <75mg** | < 30 mg*** | 150% | A more abrasion-resistant coating resists being worn off over time when exposed to physical stresses such as rubbing, scratching and backfilling. Higher abrasion resistance translates to better corrosion protection. |
| Impact Strength | ASTM D-2794 (20 mils) | 95 in. lbs** | 125 in. lbs*** | 31% | The better a coating can withstand rapid deformation from the inevitable impacts during manufacturing, transit and service, the greater the service life will be. This is a measure of the ability of the coating to stand up to physical impacts. |
| Chemical Resistance - 10% Sulfuric Acid (Wt Gain %) | ASTM D-543 | 6-15%** | <0.8%*** | >750% | Exposure to acidic and other aggressive soil conditions can accelerate corrosion. A coating which is more chemical resistant will provide greater corrosion protection, especially in harsher conditions. |
| Cathodic Disbondment | CSA Z245 (65°C, 48 hours, 20mils) | < 12mm average results** | < 8 mm average results* | 50% | A critical characteristic in the steel pipeline coatings industry, this describes the ability of the coating to resist being lifted or pried off by corrosion once it begins, something vital to long-term corrosion protection. |
| Water Immersion | ASTM D-570 | 2.2%-3.0%** | <1%*** | >217% | All polymer coatings absorb water when immersed for extended periods; therefore the greater the absorption, the greater the negative effect on electrical insulation resistance, dielectric losses, mechanical strength and overall corrosion protection. |
| VOCs | ASTM D-2369 | < 2% VOCs (by weight & volume)** | VOCs: 0 g/L 100% Solids | Zero VOCs | Properly applied high-solids coatings not only offer excellent corrosion protection, but also contain little or no volatile organic compounds (VOCs), and thus are more environmentally friendly. |
| Dielectric Strength | ASTM D149 | 200V/mil** | >600V/mil | 300% | A coating's insulative properties relates directly to its ability to prevent corrosion. Higher dielectric values also allow for embedded structures to be buried in closer proximity to existing cathodically protected infrastructure (eg. Pipelines). |

* Per AWWA C222 ** Previous coating(s) *** A2LA Certified Third-Party Testing

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