AMERON
INTERNATIONAL

# PERFORMANCE TEST RESULTS

# PSX 700

**Engineered Siloxane**

| TEST | METHOD | TYPICAL RESULTS |
|---|---|---|
| ABRASION | ASTM D4060 Abrasion Resistance of Organic Coatings by the Taber Abraser [one coat at 6 - 7 mils DFT over carbon steel]. Surface Preparation: SSPC SP-10 Near White Metal Blast. | No more than 53 milligrams average loss after 1000 cycles with CS-17 wheels and 1000 grams load. |
| ADHESION | ASTM D4541 Pull-off Strength of Coatings Using Portable Adhesion Testers [one coat at 5 - 6 mils DFT over carbon steel]. Surface Preparation: SSPC SP-10 Near White Metal Blast. | No less than 2000 psi (average of three readings). |
| CLEVELAND HUMIDITY | ASTM D2247 Testing Water Resistance of Coatings in 100% Relative Humidity [one coat at 6 - 7 mils DFT over carbon steel]. Surface Preparation: SSPC SP-10 Near White Metal Blast. | No blistering, cracking, or delamination or rusting after 5500 hours of exposure. |
| EXTERIOR SEVERE WEATHERING | South Florida Marine Exposure, exposed 45 degrees facing east [one coat at 6 - 7 mils DFT]. Surface Preparation: SSPC-SP10 Near White Metal Blast. | No blistering, cracking or delamination of film. No face rusting after 18 months of exposure. 90.1% gloss retention after 18 months of exposure. |
| FLAME SPREAD | ASTM E84-84 Standard Method of Test for Surface Burning Characteristics of Building Materials [one coat 15 20 mils DFT maximum over 11-gauge cold rolled steel]. Surface Preparation: SSPC SP-10 Near White Metal Blast. | Flame Spread: 10<br>Smoke Developed: 15<br>NFPA Class A |

# PERFORMANCE TEST RESULTS FOR PSX 700 ENGINEERED SILOXANE

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| **IMPACT RESISTANCE** | **ASTM D2794 Resistance of Organic Coatings to the Effects of Rapid Deformation (Impact) [one coat at 7 mils DFT over 11-gauge carbon]. Surface Preparation: SSPC SP-10 Near White Metal Blast.** | **Direct**<br>**Reverse** | **38 inch-lbs**<br>**8 inch-lbs** |
| **PENCIL HARDNESS** | **ASTM D 3363 Film Hardness by Pencil Test [one coat at 6 mils DFT]. Surface Preparation: Clean, dry phosphated cold rolled steel.** | **Rating not less than 5H Gouge Resistance and H Scratch Resistance.** | |
| **QUV WEATHERING** | **Accelerated Ultraviolet Cyclic Weathering Test [one coat at 6 - 7 mils DFT over cold rolled phosphated steel]. Surface Preparation: Clean and dry.** | **Typically, no blistering, cracking, or delamination of film after 15 weeks exposure. 50% average gloss retention after 15 weeks.** | |
| **SALT SPRAY (FOG)** | **ASTM B117 Salt Spray (Fog) Testing [one coat at 6 -7 mils DFT over carbon steel]. Surface Preparation: SSPC-SP10 Near White Metal Blast.** | **No blistering, cracking, softening or delamination of film. No more than 1/16 rust creepage at scribe and no more than 1% rusting at edges after 5,500 hours of exposure.** | |

**QUALIFICATIONS:**

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| **USDA** | **Complies with requirements for incidental food contact.** |
| **NUCLEAR POWER PLANTS** | **Service Level II** |
| **NFPA** | **Class A** |