



# PERFORMANCE TEST RESULTS

## PSX 700

Engineered Siloxane

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

## PERFORMANCE TEST RESULTS FOR PSX 700 ENGINEERED SILOXANE

<b>IMPACT RESISTANCE</b>	<b>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.</b>	<b>Direct Reverse</b>	<b>38 inch-lbs 8 inch-lbs</b>
<b>PENCIL HARDNESS</b>	<b>ASTM D 3363 Film Hardness by Pencil Test [one coat at 6 mils DFT]. Surface Preparation: Clean, dry phosphated cold rolled steel.</b>	<b>Rating not less than 5H Gouge Resistance and H Scratch Resistance.</b>	
<b>QUV WEATHERING</b>	<b>Accelerated Ultraviolet Cyclic Weathering Test [one coat at 6 - 7 mils DFT over cold rolled phosphated steel]. Surface Preparation: Clean and dry.</b>	<b>Typically, no blistering, cracking, or delamination of film after 15 weeks exposure. 50% average gloss retention after 15 weeks.</b>	
<b>SALT SPRAY (FOG)</b>	<b>ASTM B117 Salt Spray (Fog) Testing [one coat at 6 -7 mils DFT over carbon steel]. Surface Preparation: SSPC-SP10 Near White Metal Blast.</b>	<b>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.</b>	
<b><u>QUALIFICATIONS:</u></b>			
<b>USDA</b>	<b>Complies with requirements for incidental food contact.</b>		
<b>NUCLEAR POWER PLANTS</b>	<b>Service Level II</b>		
<b>NFPA</b>	<b>Class A</b>		