



## PERFORMANCE TEST RESULTS

### SEA-SPEED V 10 X

POLYSILOXANE HYBRID FRC

(12/31/16)

<b>TEST</b>	<b>METHOD</b>	<b>RESULTS</b>
<b>ABRASION</b>	<b>ASTM D 4060 ABRASION RESISTANCE OF ORGANICS/INORGANIC COATING BY TABER ABRADER</b>	<b>&lt; 68 MILLIGRAMS AVG LOSS AFTER 1000 CYCLES WITH WITH CS-17 WHEEL AND 1000 GRAM LOAD</b>
<b>ADHESION</b>	<b>ASTM D 4541 PULL OF ADHESION PNEUMATIC ADHESION TESTER</b>	<b>&gt; 1500 PSI / &lt; 1900 PSI</b>
<b>HUMIDITY RESISTANCE</b>	<b>ASTM D 2247</b>	<b>NO CRACKING, BLISTERING,FLAKING. NO AFFECT ON FILM INTEGRITY OR ADHESION AFTER 3500 HOURS</b>
<b>EDGE RETENTION</b>	<b>MIL-PRF-23236C APPENDIX A EDGE RETENTION TEST</b>	<b>&gt; 87%</b>
<b>SALT FOG RESISTANCE</b>	<b>ASTM B117</b>	<b>NO EFFECT ON FILM INTEGRITY OR ADHESION. &lt; 1/64 INCH UNDERCUTTING FROM THE SCRIBE AT 8,000 HOURS.</b> <b>NO RUSTING, BLISTERING, CRAKING,FLAKING OR NEGATIVE EFFECT ON FILM AT 14,000 HOURS</b>
<b>IMPACT RESISTANCE</b>	<b>ASTM D 2794 10 GAUGE STEEL</b>	<b>60 INCH POUNDS</b>
<b>IMMERSION</b>	<b>ASTM D 1308, WATER, 60 MONTHS (77 F)</b>	<b>NO AFFECT ON FILM</b>

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<b>TEST</b>	<b>METHOD</b>	<b>RESULTS</b>
<b>FLEXIBILITY</b>	<b>ASTM D 522 ELONGATION OF ATTACHED ORGANIC/INORGANIC COATING WITH CONICAL MANDREL APPARATUS. ONE COAT @ 9.6 MILS (240 MICRONS) DFT</b>	<b>9% ELONGATION</b>
<b>CATHODIC DISBONDMENT</b>	<b>ASTM G - 8-96</b>	<b>MEETS MIL-PRF-23236C, SECTION 3.5 REQUIREMENT FOR CATHODIC PROTECTION CAPABILITY; 240 DAYS 72 -75 F, 1.5V. 3.2 % MAX DISBONDMENT (AVG)</b>
<b>MOISTURE VAPOR TRANSMISSION</b>	<b>ASTM F1249 WATER VAPOR PERMEABILITY OF ORGANIC COATING FILMS</b>	<b>0.0 g/m<sup>2</sup>/24 hours</b>
<b>FOULING ADHESION</b>	<b>ASTM D 5618-94</b>	<b>&lt; .39 Lbs. Technical memorandum no. MERL-2014-64 USBR technical service center</b>

## QUALIFICATIONS:

**Lloyds Register:** Certificate no. MNDE/2017/7821 dated: 21 April 2017

**USN Underwater hull systems:** MIL-PRF-24647D

**Flame Spread:** Class A