



PERFORMANCE TEST RESULTS

SEA-SPEED V 10 X

POLYSILOXANE HYBRID FRC

(12/31/16)

TEST	METHOD	RESULTS
ABRASION	ASTM D 4060 ABRASION RESISTANCE OF ORGANICS/INORGANIC COATING BY TABER ABRADER	< 58 MILLIGRAMS AVG LOSS AFTER 1000 CYCLES WITH WITH CS-17 WHEEL AND 1000 GRAM LOAD
ADHESION	ASTM D 4541 PULL OF ADHESION PNEUMATIC ADHESION TESTER	> 1500 PSI / < 1900 PSI
HUMIDITY RESISTANCE	ASTM D 2247	NO CRACKING, BLISTERING,FLAKING. NO AFFECT ON FILM INTEGRITY OR ADHESION AFTER 3500 HOURS
EDGE RETENTION	MIL-PRF-23236C APPENDIX A EDGE RETENTION TEST	> 87%
SALT FOG RESISTANCE	ASTM B117	NO EFFECT ON FILM INTEGRITY OR ADHESION. < 1/64 INCH UNDERCUTTING FROM THE SCRIBE AT 8,000 HOURS. NO RUSTING, BLISTERING, CRAKING,FLAKING OR NEGATIVE EFFECT ON FILM AT 14,000 HOURS
IMPACT RESISTANCE	ASTM D 2794 10 GAUGE STEEL	60 INCH POUNDS
IMMERSION	ASTM D 1308, WATER, 60 MONTHS (77 F)	NO AFFECT ON FILM

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FLEXIBILITY	ASTM D 522 ELONGATION OF ATTACHED ORGANIC/INORGANIC COATING WITH CONICAL MANDREL APPARATUS. ONE COAT @ 9.6 MILS (240 MICRONS) DFT	9% ELONGATION
CATHODIC DISBONDMENT	ASTM G - 8-96	MEETS MIL-PRF-23236C, SECTION 3.5 REQUIREMENT FOR CATHODIC PROTECTION CAPABILITY; 240 DAYS 72 -75 F, 1.5V. 3.2 % MAX DISBONDMENT (AVG)
MOISTURE VAPOR TRANSMISSION	ASTM F1249 WATER VAPOR PERMEABILITY OF ORGANIC COATING FILMS	0.0 g/m2/24 hours
FOULING ADHESION	ASTM D 5618-94	< .39 Lbs. Technical memorandum no. MERL-2014-64 USBR technical service center

QUALIFICATIONS:

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

USN Underwater hull systems: MIL-PRF-24647D

Flame Spread: Class A