

The **ONLY** Hard film Silane - siloxane Propeller and Running gear coating

Armor-Sil® R/G, the latest innovation in marine running gear protection, **Armor-Sil® R/G** is the Culmination of years in development and testing for superior durability and function to protect and maintain fouling free propellers and running gear. **Armor-Sil® R/G** is the most effective and longest lasting Running gear protection technology available globally. Increasing and maintaining peak performance and durability for years is key for all types of vessels including all pleasure craft and large commercial ships.

Armor-Sil® R/G is another first for Seacoat technology. Our **SEA-SPEED** hull coatings have an excellent service record in commercial, military and pleasure craft applications since 2001.

Armor-Sil® R/G is a silane – siloxane nano coating that cures to an extremely hard glass smooth finish. It is a non-stick surface. This technology eliminates the need for toxic materials such as Cuprous oxides and biocides as it also has our proprietary VMT thereby making the surface less attractive for biofilm and organisms.

It should be applied over our etching primer (PPV 702) to properly prepared alloys (Props & Shafts) It differs from soft silicones and temporary coatings in that it cures into a very hard, durable and highly abrasion and impact resistant elastomeric film. **Armor-Sil® R/G** is clear, extremely smooth and forms a NON – STICK surface.

Product Benefits:

- **Non – Stick FRC**
- Non-toxic, environmentally safe (no poison).
- Very low V.O.C. emissions (volatile organic compounds).
- Extremely hard yet flexible film to resist against damage and wear.
- Low surface energy / coefficient of friction to maximize propeller efficiency.
- Glass smooth surface < 10 microns Average surface roughness.
- Underwater scrub capable without damage to the coating or environmental impact.

Application Benefits:

- One coat application over our Etch primer PPV 702.
- HVLP spray application.
- Easy to spray with high sag resistance and excellent edge retention.

Product Applications:

- Propellers & Shafts, Trim tabs, stabilizers, strainer covers
- Outboard motors and outdrives
- Pleasure boats, sailing craft, Yachts
- Large vessel propellers
- Sub-sea equipment

Characteristics:

- 95% solids.
- NON HAPS Solvents.
- 3 Year Warranty.
- No Toxic biocides.
- No TBT or Cuprous oxides.
- Excellent physical / curing properties.
- Re – Float in 24 hours Minimum.

This technical data sheet Jun 2020 supersedes those previously issued.

The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Material Safety Data Sheet (MSDS) and the Application Guide (AG) for this product. Please visit our website at www.seacoat.com

Date of issue: 1st June 2020

PRODUCT & PERFORMANCE DATA @ 25° C

Gloss:	High
Color:	Clear
Abrasion Resistance:	ASTM D 4060: < 58 mg loss
Salt Fog:	ASTM B117-11: 6,000 hours – Pass
Mandrel bend:	ASTM D522: 2.5 inch at - 40°C – Fail at -50°C
QUV:	ASTM D 4587: 10,000 hours – Pass
Adhesion:	ASTM D 3359: Pass
Specific Gravity:	1.09
Bulk density:	9.09 Lbs. Per gallon - Mixed
Flash point:	Resin: >145°C; Activator: >145°C
Type:	Two-component Silane Siloxane nano coating.
Cure:	Chemical reaction.
Solids:	95 % as supplied.
VOC Content:	21.80 - 56 grams/liter as supplied.
Coverage:	5.4 square meters per liter including 30% loss. Kit covers 2.7 square meters.

SUBSTRATE PREPARATION

Substrate temperature:	Must be above 5°C and at a minimum must be 3°C above the Dew Point.
New /existing Surfaces:	<ul style="list-style-type: none"> For best performance, the surface must be clean, dry and free of oils, grease and / or wax. Appropriate preparation / grit blasting to SA1 is preferred/sanding with 60–80 grit is acceptable. May be applied over Etch primer PPV 702 Apply one coat 5 mils (125 microns) wet film thickness Tack free: 2.5-3.5 hours cure time @ 25°C Handling 24 Hours.

APPLICATION

Mixing ratio by volume:	<ul style="list-style-type: none"> Full kit mix is 1 can part A (Activator) : 1 can part B (Base Resin). Partial kit mix is 1 part by volume A (Activator) : 3 parts B (Base Resin)
Induction time:	8 minutes
Pot life:	90 minutes @ 25°C
Application equipment & thinner:	<ul style="list-style-type: none"> Apply with HVLP only. Use a 1.4 – 1.6 mm tip. Consult tech service if you have any questions.
Repaired or resurfacing:	<ul style="list-style-type: none"> Apply as per above. For aged coated surfaces with minor damage, clean (Degrease) and sand lightly and evenly to have a smooth surface.
Clean up solvents:	MEK, WattyL L780.

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DRYING & CURING CHARACTERISTICS

Tack free:	2.5 - 3.5 hours cure time at 25°C
Handling:	24 hours
Thorough cure:	24 hours

AVAILABLE PACKAGING

1 Quart kit (0.946 liters) Includes 473 mls of PPV 702 etch primer and 473 mls of Armor-Sil R/G topcoat.

** Request specifications or technical assistance from Seacoat SCT, LLC or your authorized representative.

STORAGE

Shelf life: 24 months subject to re-inspection.

SAFETY PRECAUTIONS

This product is sold for and intended for use by professional applicators or adults. It must be kept out of the hands of children. Proper attire, such as adequate air masks and goggles must be worn during application. Refer to the MSDS for proper industrial hygiene procedures consistent with OSHA & GHS regulations.

DISCLAIMER

RECOMMENDATIONS AND SUGGESTIONS APPEARING HEREIN CONCERNING OUR PRODUCT(S) ARE BASED UPON TESTS AND DATA BELIEVED TO BE RELIABLE, HOWEVER, IT IS THE USER'S SOLE RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THE PRODUCTS DESCRIBED HEREIN. SINCE THE ACTUAL USE OF THESE PRODUCTS IS BY OTHERS AND BEYOND OUR CONTROL, NO GUARANTEE EXPRESSED OR IMPLIED IS MADE BY SEACOAT SCT, LLC AS TO THE EFFECTS OF SUCH USE, INCLUDING THE RESULTS TO BE OBTAINED OR THE SAFETY AND TOXICITY OF THE PRODUCTS NOR DOES SEACOAT SCT, LLC ASSUME ANY LIABILITY ARISING OUT OF THE USE BY OTHERS OF THE PRODUCTS REFERRED TO HEREIN. NOR IS THE INFORMATION HEREIN TO BE CONSTRUED AS ABSOLUTELY COMPLETE SINCE ADDITIONAL INFORMATION MAY BE NECESSARY OR DESIRABLE WHEN PARTICULAR OR EXCEPTIONAL.

Efficient US Technology



~~ We have your bottom covered ~~

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