

ARMOR-SIL R/G

RUNNING GEAR PROTECTIVE COATING



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 an 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 Etch primer PPV 702
- Airless spray, HVLP or gravity fed conventional 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.

PRODUCT & PERFORMANCE DATA @ 77°F (25°C)

Type: Two component Silane Siloxane nano coating
Cure: Chemical reaction
Solids: 95 % as supplied.
VOC Content: 21.80 - 56 grams/liter as supplied

Specific Gravity: 1.09
Bulk density: 9.09 Lbs. Per gallon - Mixed
Flash point: Resin: >294°F (> 145°C)
Activator: >294°F (> 145°C)

Shelf life: 24 months subject to re-inspection
Ratio: By Volume: 1 part A (Activator)
3 parts B (Base Resin)

Clean up solvents: MEK, N butyl acetate or anhydrous isopropanol

Potlife: 90 minutes @ 77°F (25°C)

Drying & Curing Characteristics

Tack free: 3 hours
Handling: 6 hours
Thorough cure 24 hour

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

Application equipment & thinner:

May be applied with HVLP, conventional or airless sprayer
No thinning is needed with airless. Consult tech service.

Available Packaging

1 Pint kit
1 Quart kit
1 Gallon kit

** Request specifications from Seacoat Technology, LLC
or your authorized representative.

Substrate temperature: must be above 40°F (5°C) and
at a minimum must be 5°F (3°C) above the Dew Point.

Substrate preparation:

New /existing Surfaces:

- 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 3-5 mils (75 – 125 microns) wet
- Allow 2.5- 3.5 hours cure time @77°F (25°C)

Coverage: 320 – 530 square feet per gallon

Repaired or resurfacing:

- Apply as per above
- For aged coated surfaces with minor damage:
clean and sand lightly.

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. Refer to the SDS for proper industrial hygiene procedures consistent with OSHA & GHS regulations. Always use protective goggles, gloves, clothing and or respiratory equipment.

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 TECHNOLOGY, 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 TECHNOLOGY, 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.

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