



# “Eagle Speed Antifouling”

## EAGLE SPEED ---- Series

### Category: Efficient

### Product Information

Eagle Speed Antifouling Series' Efficient is an ultra low friction silyl antifouling with controlled polishing rate, based on a hydrolysing organosilyl polymer as binder. This binder dissolves in seawater at a rate permitting the continuous exposure of fresh antifouling. Its high performance technology is comprised of an insoluble modified binder comprised of cuprous oxide, Copper Pyrithiones & other package of toxicants, certified to comply with DNV-GL Approval Anti-fouling Systems on ships. With its high strength A/F technology, Eagle Speed Antifouling is designed for vessels with a 5-year service period undergoing heavy fouling, long-range service, and travelling at medium speed. It is a tin-free A/F certified to comply with IMO Antifouling System Convention (AFS/CONF/26). Eagle Speed Antifouling can also be applied on naval vessels, coastal cruisers and deep sea ocean vessels, where longer static conditions arise. Provides excellent performance and substantial savings to the operators.

**Eagle Speed Antifouling Series' Efficient displays very good compatibility with various well known producers.**

### Recommended Purpose

To be used on higher speed and wide range vessels operating on a worldwide trading service. Focus on maintaining speed and schedule. For application at new building or maintenance and suitable protection on hull under all fouling conditions. It is highly durable with 60 up to 90 months of service.

### Physical Properties

**Colors:** Oxide Red, Brown Red, Black

**Sheen:** Matt

**Volume Solids (%):**  $56 \pm 2$  test / standard ISO 3233

**Theoretical Coverage:** 5.60 m<sup>2</sup>/Lit at 100 microns dry

**Recommended Film Thickness:** 75 - 150 microns dry

**Recommended Film Thickness:** 133 - 267 microns wet

**Density:** 1.70 g/ml  $\pm$  0.05

**Flash Point:**  $25 \pm 2$  °C test /standard ISO 3269 method I

**VOC:** 401.00 g/Lit (material as into the container)

Directive 1999/13/EC, SED: Max 219 g/kg

# Philadelphia Coatings LLC

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## Product Data Sheet

### Application Data

**Mixing Ratio:** Single pack product which should be stirred well before application by stirring machine.

**Thinner:** Not recommended. The material is ready for use, under special conditions use Thinner PH 400, max 5% by volume.

**Painting Method:** Airless spraying is our recommendation, Brush, Spray follows. Tip range 0.46mm-0.66mm and 0.66-0.79, blowing pressure shouldn't less than 141kg/cm<sup>2</sup> (2000psi). Spray angle 65 - 80°. Maybe required to add thinner. Use the proper equipment. Actual safety measures and precautions are very important from the selected method and environment work. Emergency Contact Numbers are available World Wide upon any request.

Power tool cleaning and Cleaners with Thinner PH 400.

### Drying and over coating Conditions

Temperature of basis material	5°C	23°C	30°C
Touch Dry	4 hours	1.5 hour	30 mins
Hard Dry	11 hours	4 hours	3 hours
Repainting interval (Min)	16 hours	5.5 hours	4 hours
Dry to launch (Min) / Refloating time	24 hours	16 hours	12 hours
Repainting interval (Max)	The exposure time at the atmosphere environment should be max 30 days. All information given is for guidance only. The actual time should be subject to the climate and environment conditions.		

### Coating Specification

Eagle Speed Antifouling Series' Efficient should always be applied to a recommended coating system. The surface should be dry and free from contamination of any existing layers of PhilaDur, Phila VIN/CL, link coat/sealers or various A/Fs, to secure good adhesion and good A/F performance. Specific recommendations and statements should be agreed and approved by Philadelphia Coatings LLC Technical Department in writing to do so, as there is a limit of liability only for the supplied quantity and value of the antifouling.

### Surface Preparation

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.



## Product Data Sheet

### Minimum recommended surface preparation:

Substrate	Minimum	Recommended
Carbon steel	St 2 (ISO 8501-1)	Sa 2 (ISO 8501-1)
Stainless steel	The surface shall be hand or machine abraded with non-metallic abrasives or bonded fibre machine or hand abrasive pads to impart a scratch pattern to the surface and to remove all polish from the surface.	Abrasive blast cleaning to achieve a surface profile using non-metallic abrasive media which is suitable to achieve a sharp and angular surface profile.
Galvanised steel	The surface shall be clean, dry and appear with a rough and dull profile.	Light brush blasting using nonmetallic abrasive leaving a clean, rough and even pattern.
Coated surfaces	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)	Clean, dry and undamaged compatible coating (ISO 12944-4 6.1.4)
Concrete	Low pressure water washing to a rough, clean, dry and laitance free surface.	Minimum 4 weeks curing. Moisture content maximum 5 %. Prepare the surface by means of enclosed blast shot or diamond grinding and other appropriate means to abrade the surrounding concrete and to remove laitance.

Optimum performance, including adhesion, corrosion protection, heat resistance and chemical resistance is achieved with recommended surface preparation. For other surface treatments, please consult with Philadelphia Coatings LLC.

### Storage

Self-life at least 12 months when stored cool and dry, shaded and ventilated condition. The container/paint, must be kept sealed and away from heat and ignition.

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

### Color Variation

When applicable, products primarily intended for use as primers or antifoulings may have slight color variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering. Color and gloss retention on topcoats/finish coats may vary depending on type of color, exposure environment such as temperature, UV intensity etc., and application quality. For further information, please consult with Philadelphia Coatings LLC.

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### Pack Size

Standard packing of 5,3 Gal. (20 Lit) pail. If other packing specifications are needed, please consult with Philadelphia Coatings LLC.

### Health and Safety

Prior to use, obtain, consult and follow the Material Safety Data Sheet for this product concerning health and safety information. Read carefully and conform to precautions on MSDS and packing vessels. To avoid eye and skin contact, such tools as gloves, goggles and face mask etc. should be used for works (proper safety measures should be taken according to construction methods and circumstances). All works with the product must be carried out according to all relative national health, safety and environment standards and codes. This product is for professional use only.

### Limitation of liability

All information is given for guidance only and is subject to regional variation depending upon local climate and environmental condition. An excessive film thickness delays the final curing and creates sagging. Over coating interval will increase with the increment of the number of paint layer and the thickness of the paint film. For recommended paints at special circumstances, please consult with our Philadelphia Coatings LLC. Apply in good weather. The relative humidity must not exceed 80% temperature of the surface to be coated must be at least 3°C above the dew point. All data from the tests are obtained at the special lab circumstance, so Philadelphia Coatings LLC, won't bear any liabilities from the condition whether the data could reflect the objective status at the actual application circumstance or not.

### Disclaimer

The information in the product manual is based on our experiences from the tests and practices. For the application without our knowledge, we could only make sure that our products themselves are warranted. It is allowed to modify the data in this product manual according to our continuous development and experience accumulation without advance notice.