

PERFORMANCE TECHNOLOGY  
SUPPORT APPLICATION

**GRENCORP MARINE**  
Ahead in marine coatings

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A DIVISION OF GRENCORP MAGNETICS PTY LTD



# PROPGOLD™

Ahead in performance

Foul release coating system for propellers and running gear



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# PropGold™ is a non-biocidal foul release coating which prevents sealife adhering to it. It has been developed to ensure increased vessel performance due to its slick nature and excellent corrosion protection.



PropGold™ applied to a twin shaft drive



PropGold™ helps maintain maximum performance



PropGold™ being applied to a Volvo IPS™ unit

## WHY APPLY PROPGOLD™

It is established<sup>1</sup> that energy savings are achieved by maintaining smooth underwater hull and propeller surfaces. Presence of fouling on propellers is detrimental to the performance of the propeller. Even low levels of fouling on propeller surfaces are shown to cause efficiency losses of 20%. High levels of fouling cause up to 70% decrease in efficiency<sup>2</sup>.

## PROPGOLD™ IS SUITABLE FOR APPLICATION TO ALL UNDERWATER METALLIC RUNNING GEAR

- Propellers
- Propeller shafts
- Prop struts
- Trim tabs
- Rudders
- Bow & stern thrusters



PropGold™ is factory-supported with full training for licensed applicators, combined with local technical support. Onsite training means applicators are better informed and understand how to use the system in varied conditions.

## BENEFITS OF PROPGOLD™

### PERFORMANCE

Increased speed and lower fuel consumption, compared to a craft with fouled surfaces.

### APPLICATION

Easy to apply, once surfaces to be painted have been prepared. Short over-coating interval between primer and clear coat.

### TECHNOLOGY

Latest generation non-biocide foul release coating.

### ACCREDITED APPLICATORS

Fully trained and licensed applicator program combined with prompt technical support.

### DEFINED ANTI-CORROSIVE PERFORMANCE

Corrosion protection for ferrous & non-ferrous metals.

### COMPATIBILITY PLUS

Suitable for bronze, stainless steel, aluminium alloys.

### SUPER SLICK

Non-stick coating that marine life struggles to adhere to.

### AVAILABILITY

Australian manufactured and owned, with distribution worldwide.

Further information: [www.greencorpmarine.com](http://www.greencorpmarine.com)

## Technical Data – PropGold™ System

### DESCRIPTION

PropGold™ is a two-coat system comprising an anti-corrosive Primer Coat and a Foul Release Coating (Clear Coat). The Clear Coat is a non-biocidal, low surface energy coating which prevents organisms strongly adhering to the surface of the propeller and fast moving components directly exposed to water. Organisms can be easily dislodged once the boat is placed in drive. As with all foul release coatings, when not in use, the surface will be colonised by encrusting organisms. The removal of the fouling organisms is purely a mechanical effect.

The Clear Coat does not prevent marine growth by chemically poisoning the environment.

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### PRIMER COAT

Appearance / Odour	Opaque yellow / Sweet – alcoholic
Specific gravity	0.88
Boiling point	81–117°C
Vapour density	Heavier than air
Solubility in water	N/A
VOC (theoretical – as packaged)	708 g/l Emitted VOC

### PRIMER ACTIVATOR

Appearance / Odour	Water white / Sweet – alcoholic
Specific gravity	0.91
Boiling point	81–100°C
Vapour density	Heavier than ether
Solubility in water	N/A
VOC (theoretical – as packaged)	588 g/l Emitted VOC

### CLEAR COAT

Appearance / Odour	Hazy / Strong – aromatic
Specific gravity	1.02
Boiling point	135–155°C
Vapour density	Heavier than air
Solubility in water	Immiscible
VOC (theoretical – as packaged)	135 g/l Emitted VOC
Flashpoint	30°C
Time to immersion at 55% RH	At 20°C: 12 hours At 10°C: 16 hours <small>*Lower temperatures or humidity will extend cure time.</small>

### APPLICATION INFORMATION

- Mixing ratio: 4 parts Primer Coat to 1 part Primer Activator (by volume)
- Pot life of mixed Primer Coat: 4 hours
- Minimum application conditions: 10°C, 55% RH
- Suitable for use on all ferrous and non-ferrous marine alloys, including aluminium
- Store below 30°C
- Shelf life: 12 months
- Not suitable for use in aquaculture applications
- Note: Do not apply to anodes



1. Waterborne underwater hull cleaning of navy ships. Naval Ships' Technical Manual S9086-CQ-STM-010, Chapter 81, Section 081-1-1, Naval Sea Systems Command.  
2. Orme, J, Masters, L and Griffiths, R 2001. Investigation of the effect of biofouling on the efficiency of marine current turbines. Proc. MAREC 2001 (Institution of Marine Engineers).