

# PROPSPEED

***A non toxic coating to prevent fouling of propellers, shafts and struts***

**Propspeed® prevents marine growth from bonding to metal surfaces below the waterline. Propspeed® works because it is slick, not because it is toxic.**

Propspeed® is a solution to a problem which has frustrated owners and captains for years.

## Performance

Increase vessel performance  
Increase fuel efficiency  
Less maintenance costs  
Easily applied  
Incredibly effective  
Long service life

## Uses

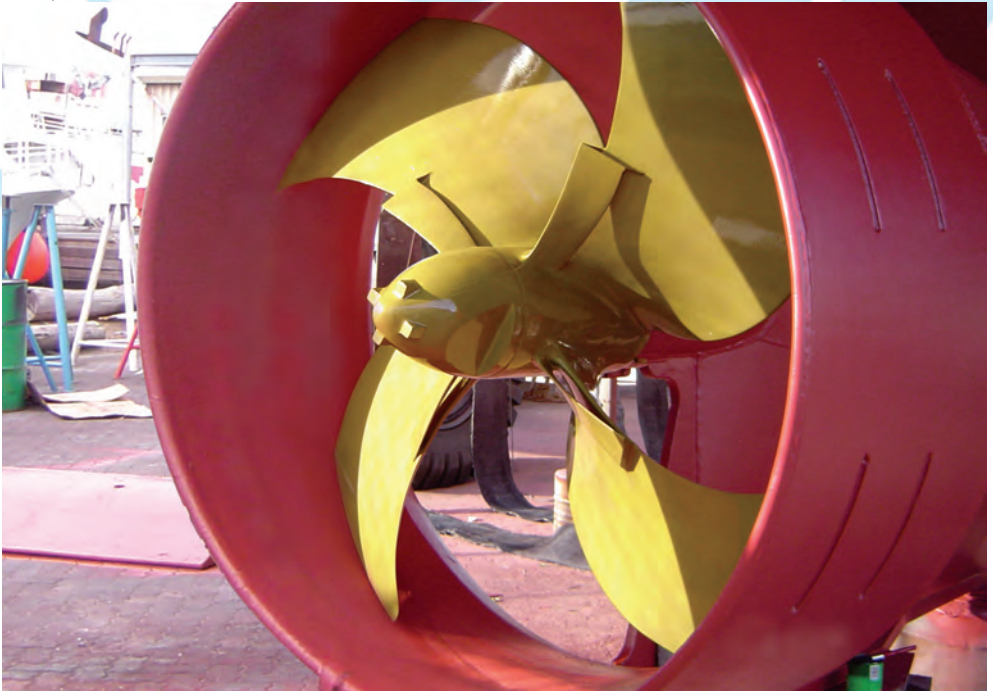
Propellers  
Shafts  
Sternlegs  
Volvo IPS Drivers  
Bow thrusters  
Rudders  
Trim tabs  
Keelcoolers

## FAQ

- Can Propspeed® be used on stainless steel  
YES, the etching primer has good adhesion to prepared stainless steel
- Can Propspeed® be used on powdercoated sternlegs  
YES, lightly sand the sternleg and apply the clearcoat directly, etching primer is not required
- How long before I can relaunch my boat  
Min 8hrs is required before relaunching
- How long will it last  
Typically you can expect 12 mths service if applied correctly, no electrolysis, no mechanical damage
- Will it work in my country  
Propspeed® is used with exceptional performance globally

## Limitations

The Propspeed® system is not recommended nor approved for in use in aquaculture or contact with food products



*Propspeed® can be used on any size boat, from a small yacht to a large commercial vessel. This photo is of Propspeed® applied to a commercial trawler.*



Each 1 liter kit contains 2 x 240mls etching primer, 2 x 60mls etching primer hardener and 1 x 400ml topcoat.

Each bag contains 10 disposable stirring wheels and 1 metal shaft.



Each box contains 20 individual Proprep wipes.

Each box contains 20 individual Denatured Alcohol wipes.

Propspeed is a coating system designed and proven to prevent marine growth from bonding to metal surfaces below the water line. Propspeed works because it is slick, not because it's toxic.

- 1 **Preparation** is the key with any coating system and we can't stress enough just how important it is for improved product durability and overall performance.
- 2 **Etching Primer** is a two component etching primer which has exceptional adhesion to difficult surfaces such as bronze, aluminium and stainless steel.
- 3 **Clear Coat** is a silicone type foul release coating with proven performance in marine environments throughout the world.
- 4 **Propprep Wipe** is a wipe that contains a special cleaner and metal conditioner which improves adhesion of the primer coat. Propprep Wipes are **particularly necessary for new propellers**.
- 5 **Denatured Alcohol Wipe** is a wipe that contains Denatured Alcohol and must be used for cleaning.

## Propspeed System Limitations

The Propspeed system has been developed over many years of trial and error and has been refined to give exceptional performance throughout the world. The preparation and application instructions should be followed to ensure you get a satisfactory result. Taking shortcuts may reduce the durability of the system. Propspeed should only be applied by a qualified applicator. As with any coating systems, environmental influences will vary the cure rate of the coatings and this needs to be taken into account by the applicator. We recommend a minimum application temperature of 5°C with a maximum humidity of 85%. Electrolysis of a vessel or even a vessel moored nearby can blow the coating system off the running gear. Marinas with 400 volt supply to vessels are more prone to neighbours vessels being affected. Propspeed clear coat is a soft coating and is easily damaged by mechanical abrasion, fishing tackle or ropes around the running gear. Vessels used in shallow sandy areas are also prone to mechanical abrasion of the clear coat. The Propspeed system is not recommended nor approved for use in aquaculture or contact with food products.

## **Dirty Running Gear**

Clean off all marine growth by mechanical scraping or in conjunction with a fine grinding wheel. All surfaces must be sanded to a 60-80 grit scratch pattern. Wash with clean water and wipe surfaces thoroughly with denatured alcohol wipe.

## **Removal of Old Propspeed**

Remove as much as possible of the old Propspeed using a metal scraper in conjunction with a fine grinding wheel. Clean all surfaces with xylol or acetone to ensure all silicone is removed, then sand to a 60-80 grit scratch pattern. Wash with clean water and wipe surfaces thoroughly with denatured alcohol wipe.

## **New Propellers**

New propellers are particularly difficult to prepare due to their very smooth and chemically inert surface. After several months in the water the surface will oxidise and coating adhesion greatly improves. Alternatively, remove all obvious surface oils and greases with denatured alcohol wipe. All surfaces must be sanded to a 60-80 grit scratch pattern and then wiped with a Propprep Wipe as per Propprep Wipe instructions



Propprep is a special cleaner and metal conditioner suitable for most metals and is recommended for use on new propellers before applying the Propspeed system. Propprep doesn't contain corrosion inhibitors so the treated surface should be painted as soon as possible after treatment. Definitely within 4 hours. Propprep contains phosphoric acid and must not be used on cadmium, zinc, or magnesium as these metals are subject to rapid chemical attack by acids.

## Application - After Preparation

Ensure obvious residues of grease and oils are removed by using a denatured alcohol wipe. Then use a Propprep wipe, wiping over small areas at a time. Do not allow the Propprep solution to dry out, remove by wiping off thoroughly with a clean damp cloth. Take particular care to remove any residue in crevices such as around the nuts. Wash entire treated surfaces with fresh water and dry off. Before applying the Propspeed etching primer, wipe down with denatured alcohol wipe.

## Safety

Prop-prep is acidic; operators should wear gloves.



Propspeed etching primer is a two component etching primer, chemically drying by the reaction of the mixed components. It has exceptional adhesion to non-ferrous metals such as bronze, aluminium and stainless steel and greatly increases the adhesion of Prop speed clear coat.

## **Application – After Preparation**

Some solids in the etching primer base will settle in the tin. It is important that you scrape the bottom of the tin with the stirring stick until all solids are no longer settled on the bottom. This will take at least 5 to 7 minutes. Or alternatively use the Prop speed stirring wheel, ensuring you combine all of the settled product, this will take 1 minute

Once the etching primer base has been mixed to a smooth consistency you can mix the hardener in a 4:1 ratio. The etching primer base and the hardener have been specially measured to the correct ratio so you can add 1 bottle of hardener to 1 can of etching primer base. Catalyse by mixing base and hardener for 1 to 2 minutes. Ensure that all surfaces to be coated, have been adequately prepared and solvent wiped with a denatured alcohol wipe. Apply one uniform coat using a roller or brush, taking care to remove any drips or runs. A second coat can be immediately applied if a more uniform appearance is desired. It is important that as the etching primer becomes tack-free, (usually within 3 to 5 minutes dependant on temperature and wind) you are ready to apply the clear coating. If there is an unavoidable delay in the application of the clear coat it is recommended that an additional coat of etching primer is applied.

## **Safety**

Propspeed etching primer contains solvents and diluted phosphoric acid, operators should use barrier cream, wear goggles and protective clothing.



Each bag contains  
10 disposable stirring  
wheels and 1 metal shaft.



Etching primer not mixed correctly and not ready to add hardener.



Etching primer mixed thoroughly and ready to add hardener.

Propspeed clear coat is a silicone type foul release coating with proven performance in marine environments throughout the world. It prevents marine growth bonding to metal surfaces below the water line because it is slick, not because it's toxic. Propspeed clear coat does not contain copper, tin or any other toxic substances which may cause environmental pollution.











## Application

Propspeed clear coat must be applied as soon as the etch primer is touch dry, if there is an unavoidable delay then it is recommended another coat of catalysed etch primer be applied. Apply one full even coat of Propspeed clear coat with a new clean brush. All drips and runs must be brushed out, take particular care to brush out any drips which accumulate on the bottom of the coated surfaces, especially the blades. Do not nick or scrape the finished surfaces. Allow to dry, it will be slightly tacky to touch. Do not immerse in water for a minimum of 8 hours. We recommend using disposable brushes and discard them after each application to avoid possible contamination. Propspeed clear coat must not be sprayed to avoid contamination of other vessels.

## Safety

Propspeed clear coat contains solvents; operators should use barrier cream, wear goggles and protective clothing.



-  Remember to remove all of the solids from the bottom of the etching primer base can, and stir to a homogenous mixture.
-  Be sure to time your work so there are no prolonged gaps between primer and topcoat.
-  Be sure and brush-out any sags or drips in the primer before applying the clearcoat.
-  Install all zincs prior to applying Propspeed.
-  The Propprep wipes do not contain corrosion inhibitor, so treated surfaces should be painted as soon as possible after treatment.
-  We recommend that one person apply the etching primer and another person follow and apply the clearcoat. Be sure to brush out any sags, drips or runs within 15 minutes of completing the application.
-  After completion of clearcoat, visually observe all areas, ensuring there are no misses, gaps or drips. The clearcoat will dry to a glossy finish and will remain feeling “tacky”, it will not dry to a hard finish.
-  Minimum application temperature 5°C and 85% RH.
-  Coverage approx 12m<sup>2</sup>/Ltr.
-  Guideline Quantities
  - Shafts and dual propellers at 23” 500ml kit
  - Shafts and dual propellers at 24” - 42” 1 liter kit

**Example:** A 56ft launch, of which would include the propellers, shafts, struts, trim tabs and rudders: 2 x 1 liter kits



## **How does Prospeed work?**

Prospeed's unique "foul release" formulation produces a surface that does not allow marine growth to permanently attach.



## **What are the benefits of Prospeed?**

Prospeed will keep your running gear free from marine growth and will increase your vessel's speed and reduce your fuel consumption.



## **Is prospeed environmentally friendly?**

Yes. Prospeed contains no tin, copper, biocides or pesticides.



## **Is Prospeed good value?**

Absolutely! For years boaters have asked for a coating to keep their running gear free of marine growth. Prospeed not only delivers a coating that answers this call, but will deliver higher speeds and fuel savings, when compared with unprotected running gear.



## **How long should Prospeed last on my vessel?**

Prospeed should last at least one year but many customers report up to two years of service.



## **Do I need to do anything to maintain my Prospeed application?**

Prospeed's unique "foul release" formulation is self cleaning. However, it is acceptable if your diver gently wipes Prospeed with a non abrasive rag.



## **Can I haul my vessel multiple times without having to re-apply Prospeed?**

Yes. Prospeed can be hulled and launched multiple times without affecting its performance.



## **Who should apply Prospeed to my vessel?**

We recommend that you have a certified applicator apply Prospeed on your vessel.



## **Can I use Prospeed on my Kiwi Props?**

Yes you can. Preparation is similar to any other Prospeed application except you do not need to apply the etching primer just apply the Clear Coat after normal preparation.



## **Can I spray Prospeed?**

We do not recommend the spraying of the clear topcoat, as it is a silicone based product which can easily contaminate other vessels in the yard if not handled correctly.



## **Where can I find the MSDS and Technical Data Sheet on Prospeed products?**

You can download and print these from our website [www.prospeed.com](http://www.prospeed.com)



# PROPSPEED

***A non toxic coating to prevent fouling of propellers, shafts and struts***

Application of Propspeed™ is a two step process beginning with a catalysed etch primer followed by a silicone based top coat. Propspeed™ is an environmentally safe product and does not contain copper, tin or any other toxic substances which may cause environmental pollution. Propspeed™ will not perform to satisfaction if, the product is not applied per instructions by an approved applicator or if the vessel has an electrolysis issue or the coated surfaces come into contact with abrasives such as a sand bank.



*Amazing performance! Check out the massive oyster growth on the conventionally anti-fouled rudder and strut, and then check out the prop and shaft which were coated with Propspeed™. This photo is of a boat moored for two years, in the Bay of Islands, New Zealand.*