



COMPLETE GUIDE TO

# BOAT & YACHT



CLEANING & PROTECTION

Teak | Paint & Gelcoat | Metal | Glass | Vinyl

PRESENTED BY:

 **DITEC**<sup>®</sup>  
MARINE PRODUCTS

# **Standard Operating Procedures**



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# **Introduction**

**Who We Are At DiTEC Marine Products**

## Who We Are At DiTEC Marine Products

DiTEC Marine Products has been a leader in developing effective and high-performing cleaning and protection products in the marine industry for two decades and is one of the few manufacturers whose products and formulas are fully compliant with the regulatory guidelines set by MARPOL Annex III and Annex V. Through years of testing and trial and error, DiTEC has developed cleaning products that readily biodegradable, free of harsh and harmful chemical ingredients and comprised of environmentally responsible raw materials, protecting the marine ecosystem and all that inhabit it. Our cleaning products are classified as 'not a marine pollutant' and can be safely rinsed overboard with fresh water.



DiTEC cleaning products are some of the best-performing products exceeding industry standards in the market. Most importantly, the protection products are second to none, outperforming our competition. Their ease of use and longevity are among the best in the industry and last for months or even longer depending on the product and surface. A surface that is protected with a DiTEC protection product will reduce dirty

water, salt, bird/spider droppings, oils, air-borne contaminants and most anything else you can throw at your boat's surface from binding and attaching to a surface. Then, when it is time for daily/weekly washings using **Boat Soap** (removes dirt, not your protective coating), any contaminants rinse right off or wash away easily, requiring up to 50% less effort and time. All the DiTEC products, when used on every surface, create a system.

No other company's products are used in our bottles (no white labeling). We develop, manufacture and own all of our formulas and chemistries, ensuring that the end user is using the best performing products offered only by DiTEC.

We're not just selling a product in a bottle, we are boat owners and enthusiasts! The owners and staff at DiTEC have 100 years of combined boating and detailing experience. We have developed and are producing and selling the best performing products for boat and yacht lovers.

# **Chapter 1**

## **The Importance of Taking Care and Maintaining the Surfaces of Your Boat**



### Reasons Why You Should Maintain Your Boat

#### Happy Owner

Every boat owner wants to have a clean looking boat. There is nothing better than the sense of pride you feel when you are ready for a day of fun on the water, and you walk up to your clean and sleek-looking vessel. A clean boat is a happy boat. DiTEC is committed to helping boat owners maintain this pride and feeling every time you entertain your friends and family on a ride on the water.

#### Maintaining Value

A boat is an investment. If you are committed to having fun on the water, you likely will have more than one boat in your lifetime. Keeping up with regular cleaning and maintenance schedules will not only keep it looking pristine, but it will help hold its value, so when it's time to look for an upgrade, you can ensure you are getting top dollar for it.



Image 1.1: Regular cleaning and maintenance will help hold your boat's value.

#### Stay Ahead of Maintenance

Maintaining a regular cleaning and maintenance schedule will help you notice minor defects in the boat. Whether it is a chip or mark on the paint and gelcoat, or a slight tear in the vinyl seat, you can stay ahead of the minor defects and correct them early before they become a costly problem.

# The Importance of Taking Care and Maintaining the Surfaces of Your Boat

## Prolonging the Life of Each Surface

The benefits of a regular cleaning and maintenance schedule has its benefits: Eliminating future refits of the vessel.

## Making Weekly Cleaning Easier

Washing a boat or yacht's surface that has been protected by DiTEC products (teak, glass, paint and gelcoat, vinyl, non-skid) with Boat Soap can reduce cleaning times by up to 50%.

## The Different Surfaces of Your Boat

### Paint and Gelcoat

Around 80-90% of your boat is painted or gelcoated. It can look beautiful when new and shiny and when maintained regularly. However, it can become a burdensome eyesore and source of aggravation when it is constantly dirty and becoming stained and faded.



Image 1.2: Glass surfaces of your boat.

### Glass

These are your windows, shower doors, bridge windows, table tops and possibly areas that have replaced railings for safety.

Glass is a hard surface and can take a fair amount of abuse, but you still want to take care of it. It can be etched by acids and chemicals and is also susceptible to having hard water marks form over time. Always check to make sure it is in fact glass as some plexiglass products appear similar to glass, but are in fact a hardened plastic. If you are able to run a blade over the surface with no scratching then it is more than likely glass and should be cared for appropriately.

### **Metal**

This is your stainless steel refrigerators, sinks, high gloss stainless steel rails, and all chromed items.

### **Vinyl**

Areas of your boat where you are likely to see vinyl: exterior sofas/couches/cushions.



Image 1.3: Teak decking.

### **Teak**

This is usually the decking used on larger boats or for those avid boaters that enjoy the natural beauty of wood onboard. On decks it's usually found in its raw state and is a dense oily wood that has an incredibly long lifespan when taken care of correctly.

It's also very expensive to

replace so you want to ensure the correct steps are taken when caring for teak.

### **Safety & Supplies**

The PPE and supplies you will need will vary depending on the

## **The Importance of Taking Care and Maintaining the Surfaces of Your Boat**

products you are using. Some common safety equipment you will need are safety gloves and safety glasses. Some of the following may also be needed depending on the work you are doing:

- Safety harness for working aloft or over the side of the vessel
- Life jacket
- Helmet
- Good deck shoes
- Second safety line
- Tethering points if working off a ladder
- O2 meter
- Breathing mask

Always consult with the captain or officer on watch, open appropriate permits to work and ensure the relevant personnel know of the work that is taking place.

## **Recommended Cleaning Processes**

# The Importance of Taking Care and Maintaining the Surfaces of Your Boat

## Washing the Exterior of Your Boat

### Recommended Steps

#### START HERE

NOTE: If your boat has settled dirt on non-skid areas or there are heavy, vertical streaks running down your boat that cannot be removed by lightly rubbing with your finger and water (to test the depth of stain), pretreat and lightly scrub with **Black Streak & Non-Skid** prior to proceeding with **Boat Soap**.

Wash weekly or if you rinse on alternate weeks, bi-weekly to wash off dirt and grime from your exterior surfaces using **Boat Soap**.

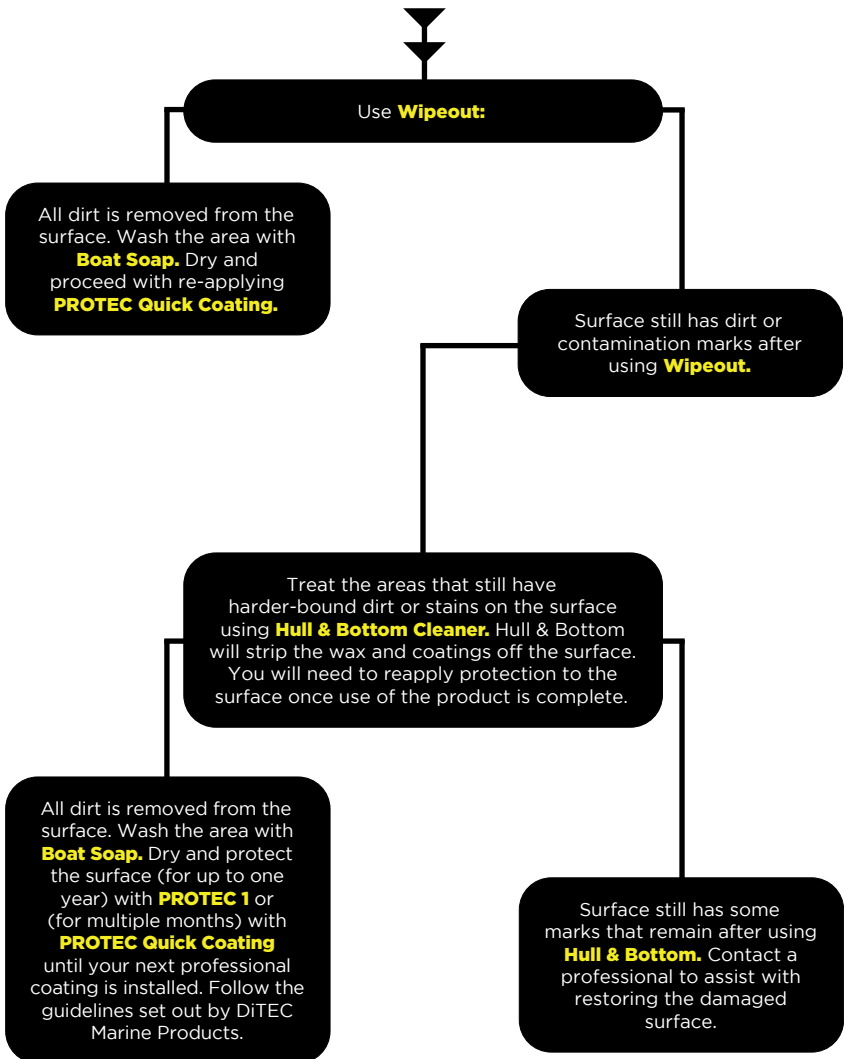
All dirt is removed from the surface. Dry and proceed with applying **PROTEC Quick Coating** (if not applied in last 4-6 weeks).

Surface still has some marks that remain after washing with **Boat Soap**.

Treat the areas that still have harder-bound dirt or stains on the surface using **Wipeout**. Wipeout will accelerate the wear of the coating(s) on the surface. Not to be used as an everyday cleaner on paint and gelcoat.

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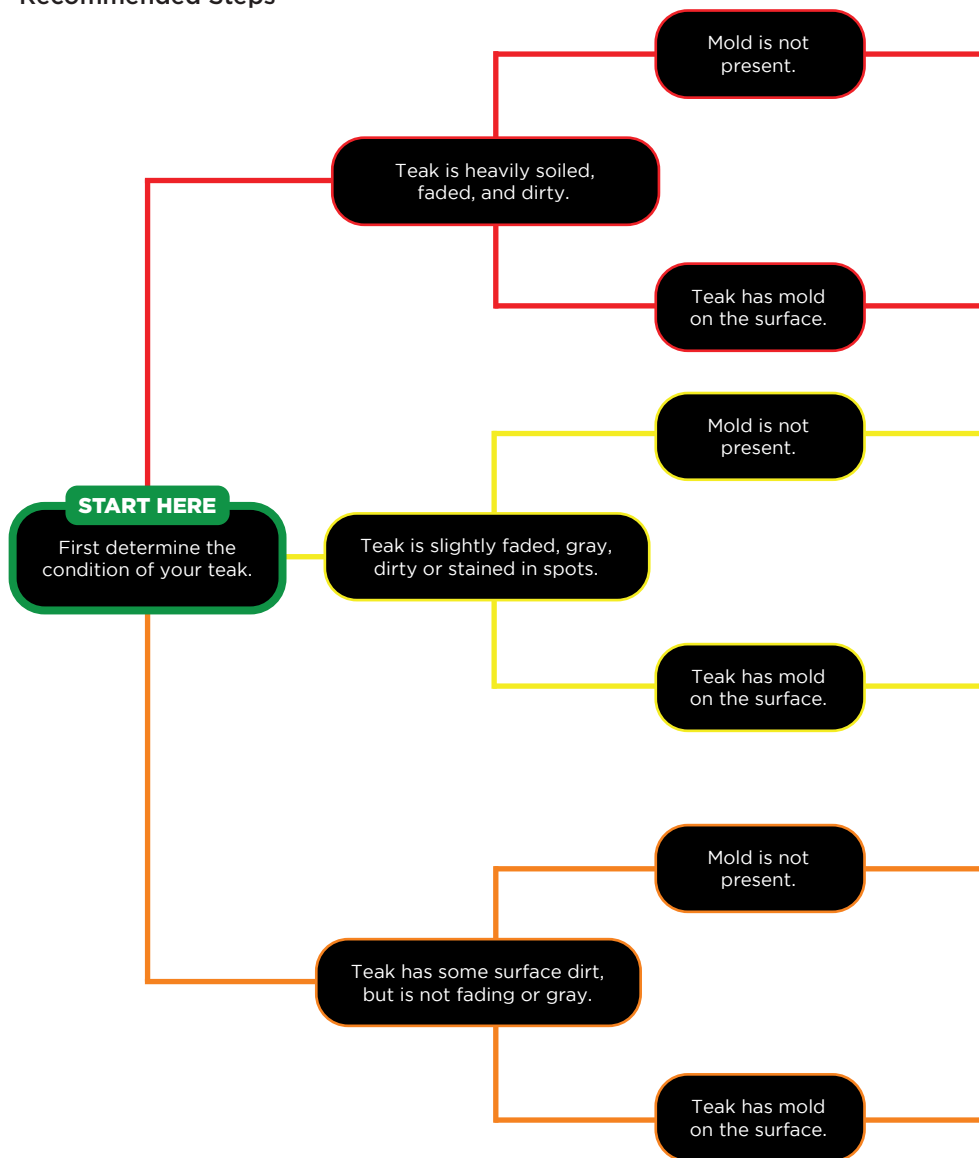


**NOTE:** You can find extended cleaning and maintenance guidelines in Chapter 9.

# The Importance of Taking Care and Maintaining the Surfaces of Your Boat

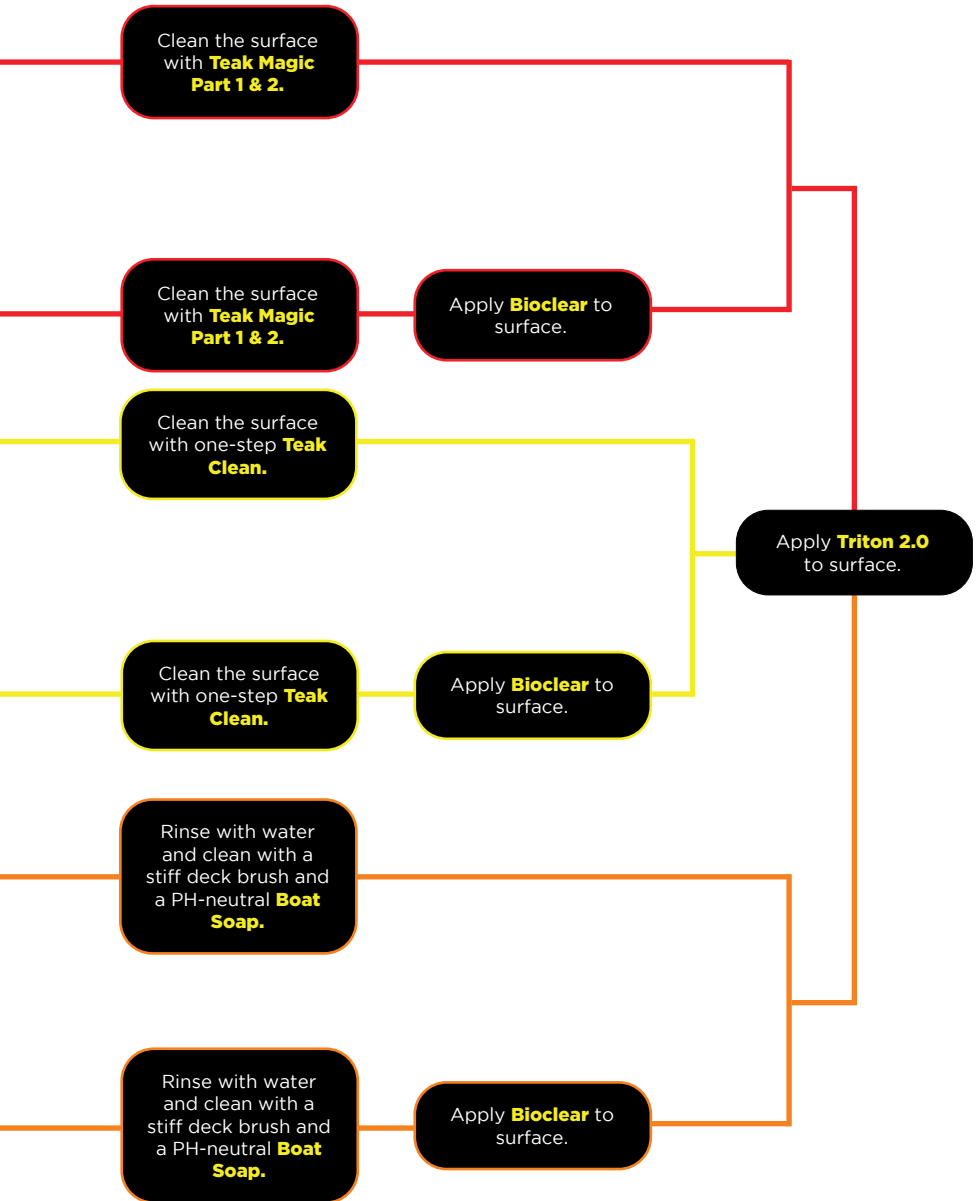
## Teak Cleaning and Protection

### Recommended Steps





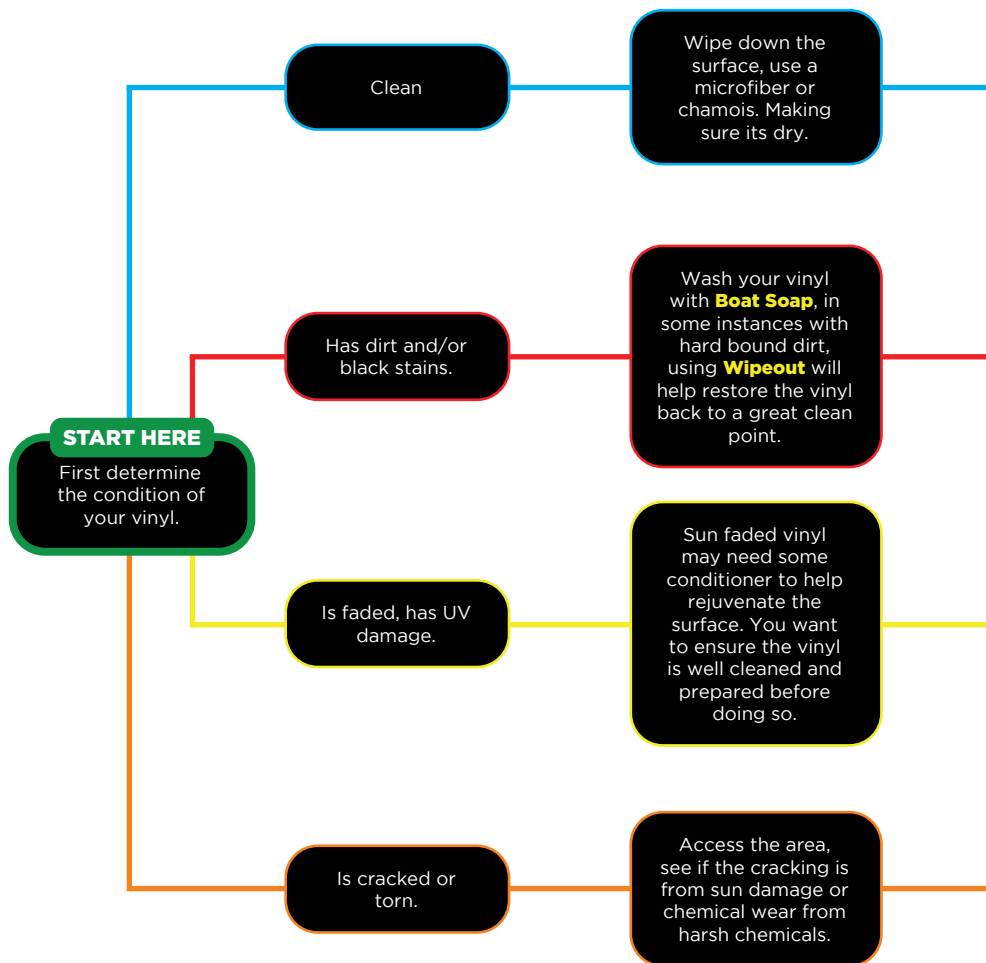
**NOTE:** You can find extended cleaning and maintenance guidelines in Chapter 9.



# The Importance of Taking Care and Maintaining the Surfaces of Your Boat

## Vinyl Cleaning and Protection

### Recommended Steps



**NOTE:** You can find extended cleaning and maintenance guidelines in Chapter 9.

Apply your protection, **MVP** is our preferred method of protection. Wipe off any excess.

Rinse thoroughly and then dry your vinyl.

Apply your protection, **MVP** is our preferred method of protection. Wipe off any excess.

If this does not bring back some color and added life to the vinyl, add some protection, this will help prolong the need to have the area recovered with new vinyl.

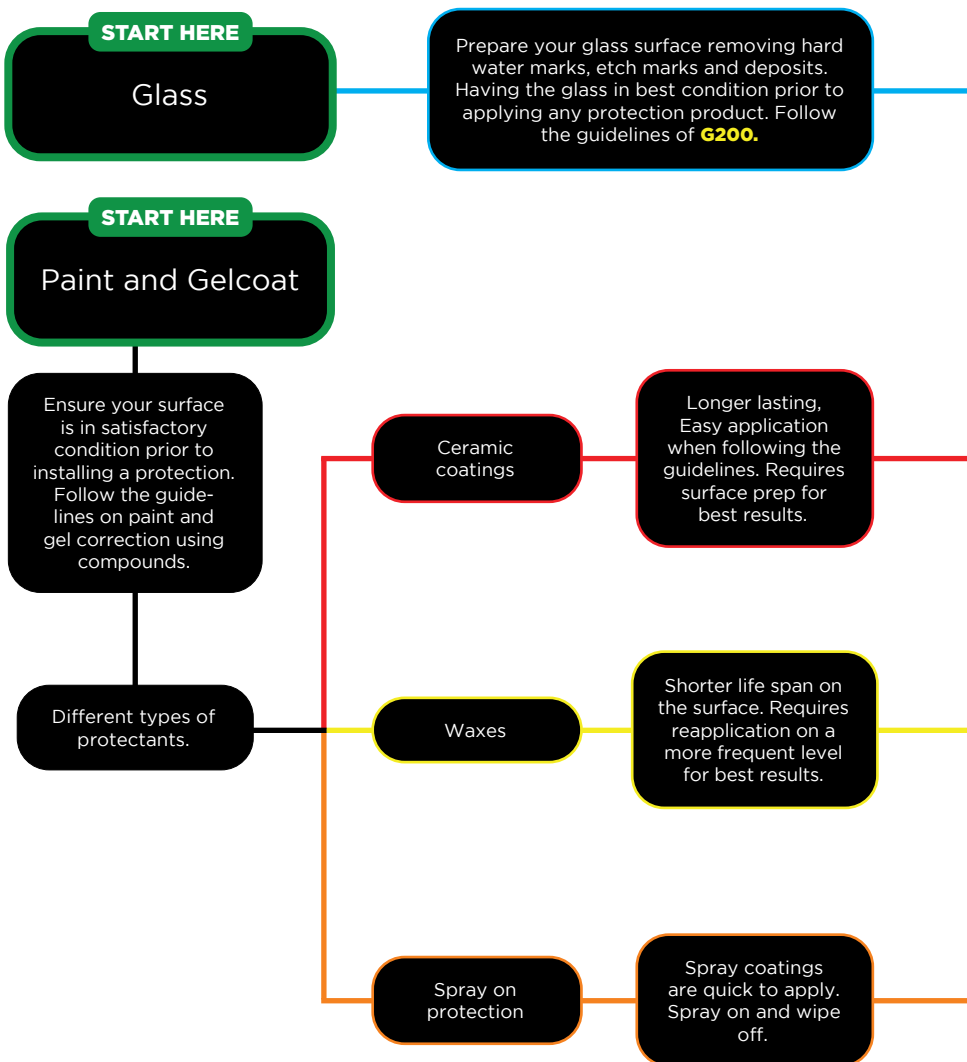
Contact a professional to discuss getting the area recovered, before additional damage happens on the foam below the vinyl.

Ensure new vinyl is marine grade. Protect the vinyl from the beginning to avoid damage in the future.

# The Importance of Taking Care and Maintaining the Surfaces of Your Boat

## Applying Exterior Surface Protection (Glass and Paint & Gelcoat)

### Recommended Steps



**NOTE:** You can find extended cleaning and maintenance guidelines in Chapter 9.

Ensure your glass surface is free from contaminants. Using **Crystal Clear**, will remove oils and surface dirt to prepare the glass for protection.

Using the guidelines of **Glasstec** apply your glass protection.

Wash and dry your glass when you wash and rinse your boat to keep the surface working at its best.

Prepare the surface with **Crystal Clear**. Apply with application pad, wait for tack feeling, wipe off with clean microfibers.

Allow for the coating to cure over 24 hours before getting wet. Follow maintenance guidelines with **Boat Soap** and **Quick Coating**.

Prepare your surface with a surface prep, **Crystal Clear** is great for this. Apply by manufacture specifications.

Use a PH neutral **Boat Soap** to ensure not to strip off wax quicker. Apply roughly once every 2-3 months.

Prep your surface for initial application with **Crystal Clear**. Spray **PROTEC Quick Coating** on the surface, wipe off excess with clean microfiber.

Wash with PH neutral **Boat Soap**, apply as needed, no limit to use.

# **Chapter 2**

## **Paint and Gelcoat Correction and Restoration**

### **Cleaning & Prepping Your Boat to Determine Its Condition**

With a good wash down, using a mit or soft brush, you will quickly see the defects, if any, on the paint and be able to pinpoint which areas could be of added concern and in need of attention. Use the appropriate products (Boat Soap, Black Streak, Wipeout and Hull & Bottom) to effectively clean the surface to the best of your ability to get a starting point.

### **Determine the Condition of Your Paint and Gelcoat**

#### **Is Your Boat New But You Notice Manufacturer Flaws?**

Even with a fresh paint job or new gelcoat on your boat, often there are some flaws from the manufacturer. You will always want to confirm with the paint shop or manufacturer when it's applicable to correct these. New paint usually needs around 30 days to cure prior to any corrections being done. Discuss with a professional on corrections and follow the steps recommended prior to starting. You'll want to ensure nothing is done to void a warranty on the new paint or gelcoat. At this point here are the recommended actions you can take:

1. The imperfections are small enough and not noticeable and you can live with them.
2. The imperfections, scuffs, scratches or whatever flaws you have need to be corrected by the manufacturer/dealer or a professional paint and gelcoat correction specialist.

#### **Is Your Boat New, Newer or in Very Good Condition With Minor Flaws and Light Scratches?**

You may see a few marks, scuffs or scratches in your painted gelcoat surface. These surface imperfections could be from fenders, lines or just general use. You need to determine if you are agreeable and can live with these small and minor flaws. If

## Paint and Gelcoat Correction and Restoration



Image 2.1: Surface with scratches/swirl marks.

so, then proceed to protecting your boat's paint and gelcoat. If you wish to have the small imperfections removed or repaired, then this needs to be done prior to the application of a coatings product to the paint and gelcoat.

Light scratches and scuffs (see image 2.1) can usually be removed by lightly buffing

the paint/gel with a dual-action buffer/polisher and light or medium compound (see image 2.2). If you do not feel qualified or experienced enough to complete this task, then sublet or hire a professional paint specialist or applicator to perform this task. Once the paint/gel corrections have been completed to satisfaction, you are ready for a coating protection to be applied.

### **Is Your Paint Chalky, Micro-Scratched, Faded and Needs Heavy Correction?**

As your paint ages, it gets harder to keep it looking in its best condition. At times when you run your hand over the surface and you see a colored, chalk-like residue coming off of it, you may need to move to doing a heavy restoration on the surface. Depending on your timeline and knowledge of paint correction you may want to bring in a recommended expert



Image 2.2: Paint correction using compounds and a dual-action polisher.



to do a test patch as well and provide the best process needed to restore the full condition to the surface.

### **Is Your Paint So Deteriorated That it Needs a Repaint?**

Every painted surface has a life expectancy. The more cared for your surface is, the greater the life expectancy of your paint or finish. Once the

paint is no longer able to hold a shine over time, it may be time to look at a respray or repaint on the surface. Always discuss with both a professional detailing specialist as well as a paint company that can provide the best information to ensure that all options are explored.



Image 2.3: Swirled and sun faded paint.

# **Chapter 3**

## **Paint and Gelcoat Protection**

## Exterior Maintenance Summarized

This chapter is probably the most important chapter in this SOP. 80%-90% of your boat's exterior is either paint or gelcoat. When it is new and kept clean, shiny and maintained properly, it is beautiful. A work of art, some might say. When it is neglected, not maintained regularly, or not protected with a wax or coatings product, it will eventually become dull, faded and always look dirty. This can be an eyesore and a source of disappointment and embarrassment.

In addition to regular maintenance (boat washing and cleaning), it is just as important to use the correct products to clean and maintain your boat. There are many, many harmful cleaning products on the market. Not only harmful to the water and environment when rinsed away (See fig. 3.1), but **harmful and destructive**

to your boat's paint and gelcoat and other exterior surfaces. Many soaps and cleaners can actually do more harm to your boat's surface than good. If a cleaner is not pH neutral, it will strip and break down any coatings products or waxes, and

### Biodegradability

Many cleaners and wash soaps claim to be biodegradable. The fact is, almost any liquid product can be considered biodegradable, even motor oil. If a harmful product is rinsed into the waterways, it could take weeks, months, or years for it to break down and completely dissipate. That is still considered biodegradable. So being a biodegradable product does not necessarily mean it is safe for the water or the environment. A product that is truly safe to rinse into the waterways and not harmful to the environment is considered 'readily biodegradable'. Typically, it is a product made with MARPOL compliant chemistries and/or approved by the EPA Safer Choice program. Just because a boat soap looks pretty and smells fresh does not mean it is safe to rinse into the waterways.

Fig. 3.1

## Paint and Gelcoat Protection

eventually even erode paint and gelcoat which in turn leads to a repaint of the boat.

### Protecting Your Paint and Gelcoat



Image 3.1: Applying protective coating to a paint and gelcoat surface.

Once you feel that the condition of your boat's paint or gelcoat is where it looks great and you feel comfortable with the completed finish, then you are ready to protect the surface and prolong and extend your boat's great appearance.

Protecting your boat's surface with a wax/coatings product is important for several reasons:

- 1. UV Protection:** The sun's UV rays can degrade the paint and gelcoat on your boat over time, leading to fading, oxidation, and the breakdown of protective layers. Wax and ceramic coatings provide a barrier that helps prevent UV damage, keeping your boat looking newer for longer.
- 2. Water Repellency:** Both wax and ceramic coatings create a hydrophobic surface which means water beads up and slides off more easily. This reduces water spots, staining, and mineral deposits, making it easier to clean the boat after use.
- 3. Stain Resistance:** Wax and ceramic coatings help protect against various contaminants, like saltwater, bird droppings, algae, and fish blood, which can stain the boat's surface. A protective layer makes it more difficult for these substances to bond to the surface.
- 4. Easy Maintenance:** Regular cleaning is much easier when the boat's surface is coated. Wax and ceramic coatings reduce

the buildup of grime, dirt, and other debris, meaning you'll spend less time cleaning and more time on the water.

5. **Enhanced Durability:** Wax acts as a protective shield that can minimize the damage caused by a small abrasion, scrape, or other impacts from day-to-day use. Ceramic coatings, being harder than wax, provide an even more durable protective layer that can withstand harsher conditions.
6. **Preserves Resale Value:** Regular maintenance, such as waxing or coating, helps maintain the boat's appearance and condition. When it comes time to sell or trade your boat, a well-maintained exterior will appeal more to buyers, helping you preserve its value.
7. **Gloss and Shine:** Both waxing and ceramic coatings enhance the appearance of your boat, giving it a glossy, high-shine finish that looks appealing on the water.

By applying wax or ceramic coatings, you provide your boat with a protective shield that helps maintain its appearance, functionality, and longevity, saving time and money on repairs and maintenance in the long run.

There are many ways and product types you can use to protect your paint and gelcoat. To complete this task, we will briefly explain what they are, along with the advantages and disadvantages of each.

1. **Wash and Wax Boats Soaps:** Using a boat soap that contains wax does not really offer the best protection. Mixing a cleaner (wash/soap) with a protectant (wax/ceramic product) typically is not the best protection solution. At most, you will get a week's worth of protection on the surface of your boat. You cannot have a cleaner and a protectant working together

## Paint and Gelcoat Protection

applied at the same time. This is an easy, pretend protection solution, not offering very good protection results. You could use this type of product weekly, but you will **not get** the protection results needed for keeping your boat surface in good or great long-term condition.

- 2. Spray-on Protectants, Waxes, and Ceramics:** After washing your boat, using a spray-on wax will give you **1-3 weeks** of protection. Using a spray on ceramic/SiO<sub>2</sub> product (see image 3.2) will typically give **2-8 weeks** of protection, depending on the product. Again, this is a simple solution, but not great for extended protection from the harmful elements and conditions that attack your boat's surface every day. These are great products to supplement and be used as an overcoat on wax or true ceramic coatings products. **DiTEC's Quick Coating** spray ceramic product, when used as a stand-alone protectant, will give you about **8-12 weeks** of protection.



Image 3.2: Applying a spray-on ceramic protectant.

- 3. Wax/Carnauba Waxes:** Using wax to protect your boat's paint and gelcoat is as traditional and old school as it gets. It does offer great water repellency, UV protection, and a nice shine and feel. It is easy to use and work with, and very forgiving to remove if you have missed some excess wax during the wipe off process. Wax is good protection, and it is very cost effective to purchase a can or bottle of wax. With waxes, there is a main disadvantage: The best, most expensive wax on the market, with the highest carnauba content,

will typically only last **2 to 2-1/2 months**. All that hard work and elbow grease that you've put in needs to be done several times a year if your boat is in the elements all year. That is a lot of work many times each year, which most people are not interested in doing.

4. **One-Step Ceramic Coating (DiTEC PROTEC 1):** Using a one-step ceramic coating (see image 3.3) product such as **DiTEC's PROTEC 1**, will hit all of the 7 reasons listed as to why you want to protect your boat. This particular product is a bit more expensive than traditional wax but is easy enough for the average boat owner to use themselves, or any crew members to use on their yacht. It will typically have protection longevity for up to **one year**. When a ceramic protective coating spray (Quick Coating) is used to supplement over this type of product every couple months, you can extend the base product's longevity up to **several years**. Great protection, easy to use for the average boater.



Image 3.3: Prepping applicator pad with PROTEC 1.

5. **Two-Part Top Coat/Base Coat Ceramic Coatings (DiTEC PROTEC Top/Base Coat):** Two-part ceramic coatings products will offer the best and longest lasting protection available for your boats paint or gelcoat. It will protect the longest, give you the most UV protection, offer a great long lasting deep glossy shine, and make your boat easier to wash, clean and maintain. When a quality coatings product is used, the surface is prepped properly, and the product installed

## Paint and Gelcoat Protection

properly, it is simply the best, longest lasting solution.

There are, however, a couple of disadvantages versus previously listed products and systems discussed. None of these disadvantages are due to the protection or performance (unless mis-applied) of a ceramic product. If you are choosing to install a two-part ceramic coatings product yourself, it is much more difficult to use than the one-step ceramic coating and wax or sprays waxes. The product flashes/dries very quickly and needs to be done in small sections (see image 3.4). If you miss wiping off the excess



Image 3.4: Due to quick flash times, it is recommended to apply ceramic coatings in small sections.

coating before it completely dries, you can create additional problems. Missed excess ceramic coating that has not been wiped off will become very hard and will bind to the surface very quickly. For this scenario the only way to remove it will be to buff with heavy compound, or wet sand to remove. If you have to perform touchups or repairs to the painted surface of your yacht, this can be a tricky situation for your painter.

Also, at times, using coatings that advertise extreme hardness on your superstructure could lead to premature failure due to the lack of flex in the coating while the vessel is in motion. **PROTEC Top Coat** and **Base Coat** have a flexible like nature, while still offering the industry leading standard of longevity and protection backed by DiTEC.



Overall, working with a two-part ceramic coating product can be a very difficult application process for the novice or average boater.

The easiest solution to getting the best protection possible for your paint or gelcoat, is to hire or sublet installation of a two-part ceramic product to professional applicators. There are many professionals and services that do nothing but perform and install two-part coatings products. The disadvantage to this is the cost of this application. This service can range in pricing from thousands to tens of thousands of dollars, depending on your boat or yacht size.

- 6. Paint and Marine Protection Films (PPF/MPFs):** PPF/MPF films are a transparent, thermoplastic urethane layer applied to the painted surfaces of boats and vehicles. This protective barrier shields the paint against environmental hazards such as dirt, debris, bird droppings, and UV rays, thus playing a significant role in improving general maintenance. PPF is known for its durability and self-healing properties, allowing minor scratches to disappear with heat. This film can be customized to fit various shapes and surface areas. The film is not only effective in protecting against physical damage but also provides a level of hydrophobicity, making it easier to clean and maintain the vehicle's appearance.

Both PPF and MPF films are similar in nature with MPFs being more specific to marine application. However, some boat owners may see a benefit in using these films in limited areas to help against wear in higher traffic areas or flat surfaces that are more exposed to the sun than others. These areas could include outboard cowling covers, T-tops on center consoles, and painted areas that are sometimes hard to maintain due to location.

## Paint and Gelcoat Protection

These films should last longer than a ceramic, but they can be very costly when doing large areas or intricate shapes around your vessel and you may have to have them corrected or reinstalled roughly every 3 years depending on your vessel usage. It's always advised to discuss the options with a professional, as these films will need to be installed by a certified applicator that specializes in PPFs and MPFs.

# Chapter 4

## Teak Maintenance

## Teak Maintenance

Teak wood is a dense, close-grained type of hardwood that is sourced from the *Tectona Grandis* trees of South and Southeast Asia, which can grow up to 50 meters and live for 100 years. Its wood is coveted for its attractive golden color and grain, its durability and strength, and its resistance to splitting, cracking, termites, fungus and weathering. Its fibers are high in natural oils and rubber, meaning it's strong, durable, and virtually im-

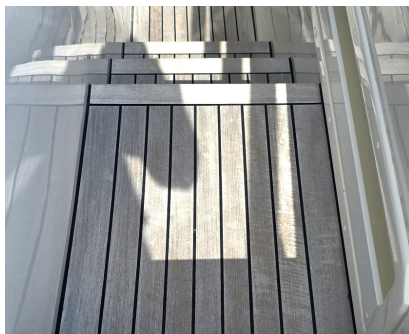


Image 4.1: Lightly grayed teak in need of spot treatment.

pervious to extreme weather conditions and rotting, even if left untreated.

Originally golden in color and with a smooth grain and texture, teak gives surfaces it's installed on an amazing finish, bringing grip under foot even when wet and used to complete the look onboard some of the finest yachts and boats

in the world. With its tight grain structure and high content of natural oils and minerals, teak decks that are properly installed with high quality aged teak can be expected to last 15-25 years depending on how the teak is treated over its lifespan.

### Determine the Condition: The Common Conditions of Teak

#### Is Your Teak Freshly Cleaned and Protected?

If you have just cleaned and protected your teak, use **DiTEC Boat Soap** to wash away any light dirt and spills that may be on the surface. If the area has been contaminated or stained and requires a heavier option to get it back to its pristine condition then **Teak Clean** is going to be your one-step solution for spot

cleaning the area before re-applying **Triton 2.0** to that area.

### Is Your Teak Slightly Faded, Gray, Dirty or Stained in Spots?

If you are in need of a quick clean and brighten, **Teak Clean** is the one-step solution to treat certain areas without the dirty water runoff that can come from two-part cleaners. For spot treatment (see image 4.1) **Teak Clean** is also the perfect addition to the bosun locker, you can easily just do a quick spot treatment without having to clean a large area. Just a light agitation to the surface with **Teak Clean** is enough to lift and remove the stain from the area.



Image 4.2: Mold/mildew spots on a teak deck with heavy graying.

### Does Your Teak Have Black Spots and Graying?

There are two main reasons you may experience a mold issue on your teak deck. Constant puddling of water and the absorption of it into the teak, or with a deck that is facing North or in constant shade, mold can become something you fight with onboard (see image 4.2).

To start out, you always want to identify the root cause of the mold. Was it a A/C air line while in the shipyard that was on the teak, is it in the caulking where it has pulled away from the teak and allowing water to penetrate below the surface, or is it that the teak is slightly uneven and allowing for water to pool in a specific area? Once this is determined, you can start to work and remove the mold using either **Teak Clean** or **Teak Magic** to clean the surface. Once cleaned, spray **Bioclear** onto the area of concern bi-weekly to actively kill the mold at its base, and not just remove its visible aspects from

## Teak Maintenance

the surface. We are always here to work with the crews and are happy to arrange a talk, demo or inspection to discuss the best solution to the issue.

### Is Your Teak Very Gray and Dirty?

For the best solution to a good heavy cleaning, use **Teak Magic**. The two-part system is user friendly and easy to work with. With it also being highly concentrated you will find the need to have large quantities of product onboard reduced drastically. Part 1 is the cleaner, and you want to follow up with Part 2 to neutralize the reaction from Part 1. This is going to give you the closest results to a freshly sanded deck or surface that is on the market, without the damaging effects that most two-part cleaners have on a teak surface. Graying teak (see image 4.1) is natural and is the teak's natural way to protect itself from UV, salt and contaminants. As we know in the industry, teak is something that brings the wow factor and incorporating **Teak Magic** into your system allows for the teak to get that beautiful golden color, without the damaging aspects of burning the stainless and destroying the teak fibers.



Image 4.3: Dirty teak in heavy traffic area. Needs heavy cleaning.

### Is Your Teak Very Dirty But Has a Raised Surface?

Look carefully at your teak surface. Is the caulking just raised, or do you see heavy grooves and ridges on the teak itself (see image 4.4)? If it's just the caulking, running a simple razor blade and cutting the raised caulking may be the quickest solution to having a more even and uniformed deck to start cleaning. If

you notice the teak grains are having deep grooves and ridges on them, then you may want to look at sanding the decks thoroughly with a 60-80 grit sandpaper. This is going to be your

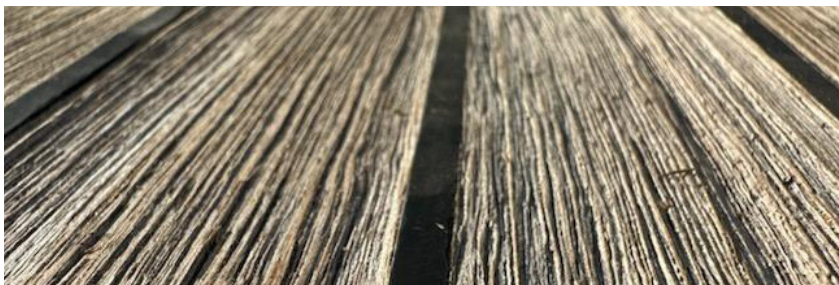


Image 4.4: Raised teak surface with damaged teak fibers caused by using hazardous chemicals and cleaners.

best option for completing the project in a timely manner. Using an orbital/rotation machine is the best option, as a belt sander may create an uneven surface resulting in water pooling in areas where there are low spots and uneven sections on your teak surface.

### Is Your Teak Freshly Sanded?

Even when your teak is sanded, you will often see that the team who performed the work will advise that you still want to give your freshly sanded deck a good cleaning. This will remove any excess dust, remaining teak fibers that may be still on the surface, and give a complete even color throughout the deck (Remaining sanded teak residue will only add to a grayed look due to the dead teak fibers graying quicker than the teak planks). This will give you the perfect start before applying your teak protection (**Triton 2.0**). Using Triton 2.0 to protect your teak will help reduce future cleaning times as dirt, grime, oils and spills will not get the chance to deeply penetrate deep into your teak's fibers.

# **Chapter 5**

## **Teak Protection**



Teak, like other surfaces of your boat or yacht will always benefit by being protected with a product that allows it to still air-off (breathe) once the product is applied and cured. Protecting your teak allows for improved longevity, as well as reducing the quantity of products needed onboard to continually clean and maintain the vessels decks, tables and stairways. By helping protect it from destructive external factors such as UV, water, oil and spills, the color is improved as well as the life of your teak onboard.

Protecting your boats teak provides great benefits such as increased durability, protection from the elements, retained aesthetic appeal, reduction in maintenance expenses, and cost savings in the long run.

### **Different types of Protectants, Oils and Sealants**

#### **Protectants**

Protectants will not change the natural appearance or feel of the teak or hardwoods that they are applied to. Instead, they bind directly to the teak fibers, leaving only the core product behind, retaining a true natural finish on the surface. Protectants differ from sealants as they do not create a hard barrier, thus allowing the teak to naturally breathe which reduces the risk of mold and mildew on the surface. In addition, their unique nano-technology base provides unparalleled protection against spills, UV and other contaminants.

Pros:

- Maintains the teak's true natural appearance.
- Does not change the feel and texture of the teak.
- Easy application.
- Quicker drying time. Ready to the touch within an hour.

## Teak Protection

- No drip off or runoff when rain or water hits the surface after drying.
- Reduces the chance of mold and mildew on your surface.

Cons:

- Price can be slightly higher than sealants due to the cost of high performing nano components.
- More specific weather conditions needed for application.

For the best results in using any of these products, you want to have a clean, well-prepared surface. The cleaner the surface, the better the results you will have after the protectant has been applied and cured.

At DiTEC Marine Products, we prefer teak protectants like our **Triton 2.0** over all other protectants, oils, and sealants on the market. It protects while allowing for the true natural beauty of the surface to show through as well as being easy

to remove when cleaning is needed without the risk of runoff and staining of painted surfaces around the decks and furniture (see image 5.1).

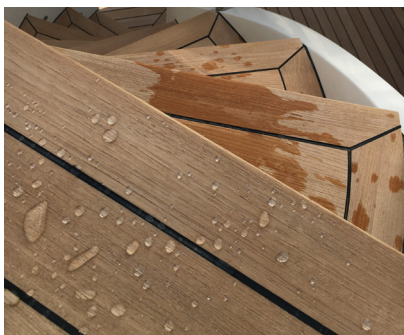


Image 5.1: Teak step protected vs. unprotected with protectant.

### Using Triton 2.0

**Triton 2.0** is a clear protectant that won't change the color of the teak or have any bleeding effects. This is helpful should you have any touch ups that are needed down the line, you won't have to worry about trying to blend **Triton 2.0**. Unlike teak sealers or oils, Triton does not seal off your teak from the natural

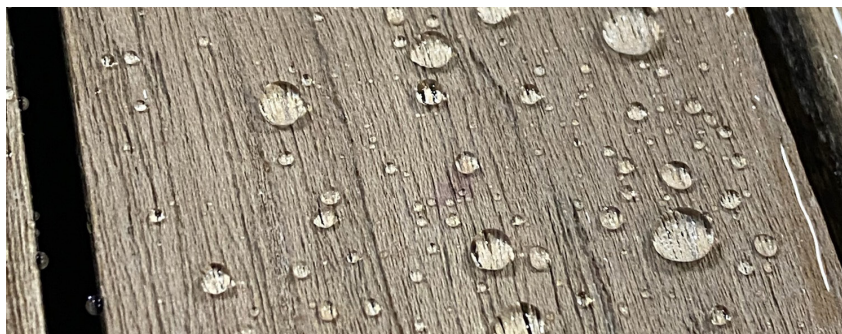


Image 5.2: Water beading on surface protected by Triton 2.0.

atmosphere but instead binds to the free wood fibers on the surface while still allowing your teak to naturally breathe and release its own oils as well. This reduces the chance of mold and mildew on the surface.

Triton's protection (see image 5.2) is second to none. If there is a spill, quickly wipe it up and continue with your day, usually just using **Boat Soap** is sufficient in removing marks on the teak that have been treated with Triton. Also to note is that once **Triton 2.0** is applied, clean ups will be that much easier, saving time, effort and also money down the road.

### **Applying Over a Stained Surface: Using Triton is Acceptable but May Not Last as Long**

With a stain binding to the teak or hard wood surface, this will not leave a lot of free space on the fibers of the wood for Triton to bind to. Therefore, the lasting effects of **Triton 2.0** will be reduced, and you will not get the same long lasting protection that you are accustomed to with **Triton 2.0** on bare wood.

### **For Mold: Use Bioclear Bi-Weekly**

Mixing **Bioclear** into a spray bottle or pump sprayer is the best solution for application. **Bioclear** actively kills the mold at the base of it and doesn't allow it to then spread further as with

## Teak Protection

bleach products. By killing the mold and mildew at the base it's a perfect solution for teak decks that are experiencing mold and mildew problems (see image 5.3) as well as wet lockers and areas that store soft goods which aren't taken out on a regular basis. **Bioclear** can be used before applying **Triton 2.0** to your teak and after **Triton 2.0** has been applied and dried thoroughly thereafter for every two weeks or as needed.

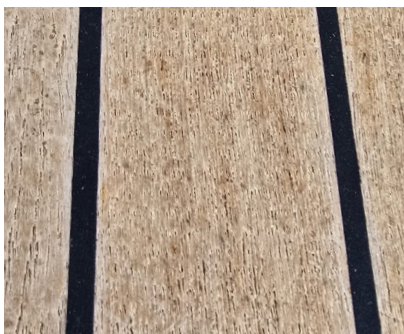


Image 5.3: Evidence of black mold spores on the surface of a teak deck.

### Natural Oils

- 1. Teak Oil:** Teak oil is derived from the teak tree and is known for its deep penetration into the wood, providing excellent protection against moisture and UV rays. It enhances the natural beauty of teak wood by giving it a warm, rich tone and a glossy finish. Teak oil is easy to apply and dries relatively quickly, making it a convenient choice for both indoor and outdoor furniture.
- 2. Linseed Oil:** Linseed oil, on the other hand, is derived from the flax plant and is widely used as a wood treatment. It offers good moisture resistance and helps to preserve the wood's natural color. Linseed oil takes longer to dry compared to teak oil, but it provides a durable and protective finish. It is commonly used on furniture, cabinetry, and wooden floors.
- 3. Tung Oil:** Tung oil is derived from the nuts of the tung tree and is known for its excellent water resistance properties.

Forming a hard, waterproof finish on the wood surface, it makes it ideal for outdoor applications. Tung oil provides a natural, matte finish that accentuates the wood's natural beauty. It is commonly used on furniture, wooden countertops, and cutting boards.

When comparing teak oil with other wood treatments such as linseed oil and tung oil, it's important to consider the specific needs of your project. Each treatment offers unique benefits and finishes, so choose the one that best suits your desired outcome and the type of wood you are working with.

Pros (For natural oils):

- **Enhances Color:** Oils help to bring out the rich, golden color of teak wood, making it look more vibrant and beautiful.
- **Application:** Oil is easy to apply with a brush or cloth, and it dries quickly.
- **Provides Some Protection:** While oil doesn't provide as much protection as a sealer, it does help to repel water and protect against UV rays.

Cons (For natural oils):

- **Uneven Wear Tone:** In a short amount of time a teak deck treated in oil can become very 'blotchy' looking and unpleasing to the eye.
- **Attracts Dirt and Dust:** Because it is a penetrating oil, it can attract dirt and dust, which can make your furniture or deck look dirty over time.
- **Frequent Re-application:** Oils need to be re-applied every few months to maintain its protective properties.
- **Durability:** Oils doesn't provide as much protection as a sealer, so it's not as durable in the long run.

### Sealants

Teak sealers are a solvent-based teak care product, containing chemicals, UV inhibitors, and pigments. Sealants do not penetrate the wood like teak oils. Instead, they work by sealing or locking up the natural oils inside the hardwood, hence their name. A good teak sealer can prevent debris, moisture, and other contaminants from leaking into the furniture or deck, and also protect the surface from damaging sun rays. Thus, it is ideal for outdoor furniture and boat decking applications.

Overall, a teak sealer focuses more on protection from harsh weather conditions and elements. It is not as effective as teak oils in preserving the original look of outdoor teak furniture but can still restore the natural luster of the tropical hardwood.

#### Pros:

- **Longer-Lasting Protection:** Teak sealer provides a more durable protective barrier than teak oil, so it lasts longer.
- **Easy to Maintain:** Once applied, sealants require very little maintenance and can be easily cleaned with soap and water.
- **Prevent Fading:** Sealers help to repel water and protect against UV rays, which can help to prevent fading and discoloration.

#### Cons:

- **Alter Appearance:** Because teak sealer sits on the surface of the wood, it can alter its appearance, making it look less natural and also create a slippery surface.
- **Increased Temperature:** Teak decks covered with a sealant can be hotter under foot when in direct sunlight.
- **Application:** Sealants are more difficult to apply than teak oil and require more preparation.
- **Cost:** Teak sealers are typically more expensive than teak oil.

# **Chapter 6**

## **Glass Rejuvenation, Maintenance and Protection**

## Glass Rejuvenation, Maintenance and Protection

Glass is a surface onboard that looks extremely sleek, and when it is in its prime condition, improves the overall look of your vessel. It is a surface that is very easy to clean and maintain, but if neglected, mineral deposits, etching and sun damage can take effect over time and could lead to expensive and time consuming repairs.

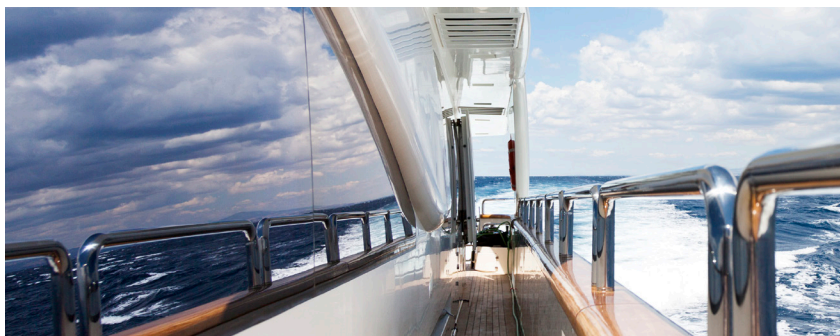


Image 6.1: Beautiful polished and protected glass surface.

It is also a hard surface, and at times, it can take more than a simple swipe to clean off hard marks and surface contaminants. Laminated toughened glass and monolithic toughened glass, are extremely durable and offer a high degree of resistance against breaks, cracks and chips. Using a quality cerium oxide polish will



Image 6.2: Buffing glass surface with G200 glass polish.

allow for better cleaning and a higher quality finish on such surfaces. Adding a layer of protection will increase the lifespan of the sleek look as water begins to contact the surface.

Keeping your glass in its best condition not only offers an appealing look, but also adds a safety aspect with optimal vis-





Image 6.3: Polished and restored glass surface.

ibility at night. As glass begins to become etched, bound with minerals and showing signs of decreased clarity, follow these steps to return its clarity and shine while adding protection.

### Determining the Condition of Your Glass

#### Do You Have a New Boat Where Glass is Flawless?

As with anything even when new, the surface may still have some small flaws or swirls, usually the installer will clean and ensure the surface is clear of these prior to final approval. In this case it is perfectly fine to treat the glass with **Glasstec** after a quick wipe down using **Crystal Clear** to remove any contaminants from the surface.

#### Is Your Glass Newer but Has Minor Scratches or Stains?

Using **G200** glass polish will get your surface restored back to excellent, more often better than factory finish (see image 6.2). Take your time in polishing and follow the steps to achieve a perfect finish on the surface to ensure your Glasstec application has the best adhesion for long lasting protection.



Image 6.4: Glasstec application on polished glass.

## Glass Rejuvenation, Maintenance and Protection

### Is Your Glass Delaminating and Beyond Repair?

When glass starts delaminating or has heavy scratches (see image 6.5) on it, this is often beyond the repair of a usual yachtsman. In this case we recommend reaching out to a professional, or send some images to the DiTEC team to discuss and assist with what may be done. Delamination happens under the surface layer and deep scratches require specialized tools and methods to get it back in shape.



Image 6.5: Heavily scratched glass.

### Regular Weekly Maintenance: Washing and Removing Water Spots

Regular cleaning and maintenance improves the lasting effects of your hard work. Having deposits (see image 6.6) remain on the surface longer than they need, it can lead to having touch ups sooner. Simply rinse or wash on a regular basis and remove the water off the surface with either a blade or a microfiber to keep your glass in pristine condition.



Image 6.6: Water and salt deposits on glass.

# **Chapter 7**

## **Metal Maintenance and Protection**

## Determining the Condition of Metal

### Does Your Metal Have Light Rust or Fingerprints?

If your metal is still in decent shape with just light signs of contamination and surface rust marks then follow the use of **Metal-on PX** to effectively clean and leave some protection on the surface.

### Does Your Metal Have Heavy Rust or Oxidation?

If your metal has gotten to a point where you have heavy rust on the surface, or has a heavy oxidation on it, you will have two options:

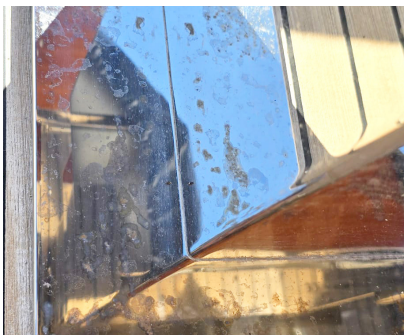


Image 7.1: Metal with rust.

You will want to try a heavy metal restoration products, such as Flitz or similar product. If surface degradation cannot be removed, then you may need to re-chrome/treat your metal surface.

### Does Your Metal Have Heavy Corrosion and Pitting?

Neglected metals can corrode over time (see image 7.1). These can easily be identified by visual rust breaking off the surface, weakened areas of the metal that don't hold their rigidity, or heavy rust pits that don't come off with using a high restoration polish. For heavy pitting of the surface, you may be able to restore the shine using a specifically designed metal cutting wheel and following a professional's steps to work your way back to the desired finish. If this is beyond your level of expertise, we would suggest getting in touch with a professional that specializes in metal restoration or replacement if the metal is too compromised to bring back.

### **Protecting Your Metal**

#### **Apply PROTEC 1 For Long Lasting Protection**

Coating your metal, similar to a paint or gelcoat surface, increases its life span on that high shine and complete look on your boat. It's also a longer process getting the metal looking in top condition and you want to ensure that it is kept that way for longer, allowing you to focus on other projects.

### **Regular Maintenance**

#### **Use Boat Soap and Continue to Use Metalon PX For Lasting Protection**

If you are not going to be using a long lasting protectant like **PROTEC 1**, **Metalon PX** is a great way to easily detail the metal surface, while leaving behind a light protective barrier to keep the shine for longer. The residue from **Metalon PX** wipes away very easily, making it a great and simple product for daily use.

# **Chapter 8**

## **Vinyl/Canvas Cleaning and Protection**

With new/newer vinyl you want to ensure you are using cleaning and maintenance products that are bleach free and won't dry out the surface (which leads to cracking), or using protection products that attract dirt by leaving behind an oily and sticky residue. A number of protection products leave behind a film or residue that yes, while protecting and adding something to the surface, also attract dirt and grime. This can lead to it being harder to maintain over time and also leave a sticky feel on you or the guests onboard.

### **Determine the Condition of Your Vinyl/Canvas**

#### **Is Your Vinyl/Canvas Newer and Has Light Surface Dirt?**

Using **Boat Soap** during your regular washings will provide a safe and effective solution for cleaning off light dirt from your vinyl or canvas surface. After your vinyl/canvas is completely dried, applying a non-greasy/sticky protectant (see image 8.1) is your next step (such as **MVP**).



Image 8.1: Vinyl protection on a clean, dry surface..

#### **Is Your Vinyl/Canvas Very Stained and Dirty?**

Spray an all-purpose cleaner directly on the surface and use a very soft bristled brush or terry/cotton cloth to work the product into the surface. Rinse thoroughly and repeat process if necessary. Once thoroughly dry apply a non-greasy/sticky protectant (such as **MVP**).

#### **Is Your Vinyl/Canvas Heavily Stained, Yellow and Cracked?**

At this point, if your vinyl/canvas is in this condition you can try

## Vinyl/Canvas Cleaning and Protection



Image 8.2: Unprotected vs. protected vinyl surface.

heavily scrubbing the surface using an all-purpose cleaner. If you still cannot remove the yellowing or stains and if you have cracked vinyl or piping, replacing or recovering your vinyl cushions or furniture is likely your only option as the condition of the surface will not improve and only continue to get worse.

### Protecting Your Vinyl/Canvas

Using a protection on your vinyl and canvas (as described above) has many benefits: Easier clean up, UV protection to fight against fading, protection from spills, oils and other contaminants (see image 8.2) as well as ensuring your vinyl/canvas looks its best at all times. Using a product such as **MVP** doesn't leave a sticky residue so it won't attract dirt onto the surface like some creams and sealants.

For extended protection, using **PROTEC 1** is an excellent option. **PROTEC 1** is not only great for paint/gelcoat and bare metal, its physical/flexible protective properties offer superior protection on vinyl and plastic, providing a long lasting UV and hydrophobic barrier (for up to 4-6 months) and a deeper, darker appearance. It also can restore faded plastic for an extended period of time. It is a more expensive alternative, but will offer the best protection over time.



# Chapter 9

## Maintenance Guidelines/Charts

## Maintenance chart for a yacht

### Maintenance Guidelines - Crewed Yacht

#### Weekly

1. Wash down, alternate between a wash and a rinse on a weekly basis.
  - a. Always dry the yacht, this avoids a magnification of UV with water sitting on the surface, dirt having a place to settle and bind as well as hard water marks forming on your surfaces.

By alternating between washing and rinsing on a weekly scale, you avoid the additional risk of dirt and grime scratching the surfaces as well as a great useful indication to monitor the surfaces over time.

#### Bi-Weekly

1. Complete vessel washdown and dry.
  - a. Washing between lockers and working from the mast down.
    - i. Helps prevent corrosion from the salt
    - ii. Removes debris
    - iii. Cleans up dirt
    - iv. Easier to maintain over time without costly repairs
  - b. Always dry your teak with a deck blade and dedicated teak mop to avoid using the same mop on your painted surfaces.
    - i. Keeping your teak dry lets you see if there are caulking issues between the planks that are holding water.
    - ii. Also helps in the prevention of mold and mildew on the surface.

#### Monthly

1. Wash your teak during one of the washdowns.
  - a. Helps remove added dirt from the surface to maintain your teak better.
2. Clean and protect the metal surfaces.
  - a. Depending on your location this could be done once every two months.
3. Wipe out your lockers that may not be completely watertight.
  - a. This helps prevent water from being stagnant in your lockers, causing rust, mold and other problems down the road.
4. Check your cleaning supplies.
  - a. Make a note of your inventory onboard. This will help for your cleaning projects to avoid down time rushing off to the shops to get product to complete the work halfway through.
5. Make notes of areas of concern to ensure that these are either added to the shipyard list or taken care of ASAP to avoid costly repairs down the road.

### Quarterly

1. Clean and protect your teak.
  - a. Either using a one-step cleaner and brightener or a diluted two-part cleaner.
    - i. This will retain its natural beauty as well as not allow it to get to a point where heavier, more aggressive solutions are needed.
  - b. Once your teak is revived, protect it with Triton 2.0. This helps keep those stains and contaminants from penetrating deeper into the teak and allow for an easier clean up cycle when doing this project.
2. Give your boat a spray of PROTEC Quick Coating to add some additional protection to the surface. Best done after the yacht is washed and dried.
  - a. Gives the paint or gelcoat some added protection from UV as well as enhancing the feel and longevity of the coating you have onboard.
  - b. Creates a hydrophobic effect that also gets the water off the boat quicker, reducing the risk of hard water marks and dirt binding to your surface.
3. Wipe out your product lockers.
  - a. Do this to ensure products have not leaked or messed out and ensures you maintain a clean environment in your lockers.
    - i. Helps avoid stains, mold, mildew and other issues down the road.
4. Add protection to your canvas and vinyl surfaces.
  - a. Helps prevent premature UV fading and cracks from constant UV exposure.

### Bi-Annually

1. Check the condition of your coated surfaces, glass and paint and gelcoat.
  - a. By maintaining a log of the various surfaces and their current condition you can see high wear areas quicker. This ensures that the surfaces are properly protected over time and prolonging expensive paint work down the road.
2. Recoat surfaces that may be wearing off with protection.

### Annually

1. Talk with a professional to discuss your paint and gelcoat surfaces to ensure that they are kept at optimal levels.
  - a. This helps with cleanup, as well as extended yard periods having issues on your paint and gel coat.
2. Polish and coat your windows with G200 and Glasstec.
3. Evaluate high wear areas for the year ahead to ensure these are added to your maintenance plan for the future.

These are a general guideline. We understand that various environmental effects change the frequency of the work needed as well as the actual usage of the vessel. Each boat should evaluate the best plan for each of their surfaces to ensure that they are properly maintained over time. Should you have any questions or need assistance in setting up a more specific guide for your boat, reach out to the team to assist.

### Maintenance chart for a day boat/center console with no teak, kept in water on an annual basis Including boats lift kept uncovered

#### Bi-Weekly

1. Wash your boat at least bi-weekly when it is exposed to the elements. Ensures dirt and dust is washed off prior to any damage happening.
  - a. Always dry off water from the surface.
2. Always wash your boat after use. Removing the salt from the surface will help preserve your surfaces better than leaving it to bake on.

#### Bi-Monthly

1. Inspect the condition of the water line. You don't want to have growth or staining marks on the hull of your boat. Using items like Wipeout or Hull and Bottom cleaner can help remove these marks.
2. Clean out around the hatches and lockers. This will help prevent wear and tear on your boat.
3. Do a walk through to inspect your vinyl and metal surfaces. Clean accordingly.

#### Bi-Annually

1. Polish and protect your metal surfaces. Removing rust from the beginning helps prevent bigger problems down the road.
2. Clean and protect your vinyl surfaces.
3. Spray down all paint and gelcoat surfaces with PROTEC Quick Coating.
  - a. Using a surface prep like Crystal Clear will help better prepare the surface for adding protection to it.

#### Annually

1. It's always good practice to treat the entire boats paint and gelcoat with protection. Using items like PROTEC 1 and the easy to install process to give you the best, long-lasting protection.
  - a. It's always advised to do some basic paint corrections at this time.
    - i. The better the surface prep the better the end result.
2. Check your anti-fouling paint, ensuring that your bottom paint is in good condition and not needing repairs and repainting.
3. If you have glass on your boat, clean and protect your glass.
4. Perform your annual maintenance on your outboard if you have not yet done so with your hours onboard.

These time frames are a general idea, if your boat is kept in fresh water versus salt water adjust these time frames accordingly to ensure your boat is in the best possible condition. Other environmental factors are the geographic location of your boat, Florida versus New York for instance. Year round, harsher climates (Florida) may require more care than areas where summer months are shorter and milder and not exposed to the higher levels of heat and UV.

## Maintenance chart for a day boat/center console with teak

Maintenance Guidelines - Owner Operated Medium-Sized Boat (Dayboats, Cabin Cruisers, Center Consoles, Go Fast Boats)

### Bi-Weekly

1. Wash your boat at least bi-weekly when it is exposed to the elements. Ensures dirt and dust is washed off prior to any damage happening.
  - a. Always dry off water from the surface.
2. Always wash your boat after use. Removing the salt from the surface will help preserve your surfaces better than leaving it to bake on.
3. Rinse and wash the teak decks.
  - a. Removing dirt off the teak will keep it looking better for longer.

### Bi-Monthly

1. Inspect the condition of the water line. You don't want to have growth or staining marks on the hull of your boat. Using items like Wipeout or Hull and Bottom cleaner can help remove these marks.
2. Clean out around the hatches and lockers. This will help prevent wear and tear on your boat.
3. Do a walk through to inspect your vinyl and metal surfaces. Clean accordingly.

### Quarterly

1. Inspect the condition of your teak surfaces. If it's needed, clean and protect your teak with the options available with DiTEC Marine Products.
  - a. Adding protection will save cleaning time moving forward and preserves the teak over time.
2. Check for mold in A/C condensers and other areas prone to mold.
  - a. Mold can take on at any time, using Bioclear helps keep the mold away and keeps that fresh boat smell without the musty odor.
3. Depending on your usage, it's always great practice to use a quick spray coating like PROTEC Quick Coating to help preserve the paint and gelcoat surfaces for longer.

### Bi-Annually

1. Polish and protect your metal surfaces. Removing rust from the beginning helps prevent bigger problems down the road.
2. Clean and protect your vinyl surfaces.
3. Spray down all paint and gelcoat surfaces with PROTEC Quick Coating.
  - a. Using a surface prep like Crystal Clear will help better prepare the surface for adding protection to it.

continued on next page

### Maintenance chart for a day boat/center console with teak (cont.)

#### Annually

1. It's always good practice to treat the entire boats paint and gelcoat with protection. Using items like PROTEC 1 and the easy to install process to give you the best, long-lasting protection.
  - a. It's always advised to do some basic paint corrections at this time.
    - i. The better the surface prep the better the end result.
2. Check your anti-fouling paint, ensuring that your bottom paint is in good condition and not needing repairs and repainted.
3. If you have glass on your boat, clean and protect your glass.
4. Perform your annual maintenance on your outboard if you have not yet done so with your hours onboard.

These time frames are a general idea, if your boat is kept in fresh water versus salt water adjust these time frames accordingly to ensure your boat is in the best possible condition. Other environmental factors are the geographic location of your boat, Florida versus New York for instance. Year round, harsher climates (Florida) may require more care than areas where summer months are shorter and milder and not exposed to the higher levels of heat and UV.

### Maintenance chart for a boat that is trailer kept

Maintenance Guidelines - Small Boats (Under 25 feet) Including boats lift kept and fully covered or kept in dry storage and covered

#### After Each Use

1. Wash your boat after each use.
  - a. This will keep the boat free of salt and contamination after being used.
  - b. Will help identify any areas of concern while washing.
2. Flush your outboard engine.
3. Fully dry your boat.
4. Cover your boat if you can to avoid additional sun damage until your next use.

#### Monthly

1. Run your engines if you haven't used the boat in a month.
2. Rinse or wash any dust or dirt off the cover as well as your boat.
  - a. Dirt on a cover will lead to additional scratches over time when the wind blows.
3. Dry and put your boat away.

#### Quarterly

1. Give the hull and exposed paint and gelcoat areas a quick spray with PROTEC Quick Coating.
  - a. Adds protection to the surface and helps assist with quicker cleanup.
2. Clean out all hatches and treat mold if present.
  - a. Bioclear is a great way to keep up with this.

#### Bi-Annually

1. Check all surfaces.
2. Detail and clean and protect your vinyl surfaces.
3. Polish and protect your metal surfaces.
4. Make any relevant annual notes to be done at the end of the year.

#### Annually

1. Perform your annual service of your engine/engines.
2. Perform your paint corrections before adding PROTEC 1 to the surface for long lasting protection.
  - a. Depending on your season or location, this may only need to be done once every few years. Fresh water is easier on boats than salt water.
3. Give your boat's cover a full wash.
  - a. Removing the dirt and grime off the cover will increase the lifespan.
4. If you have glass, clean and protect your glass surfaces.

These timelines are a guideline. Factors such as geographic location and weather in your location will affect these and should be adjusted accordingly. If you need assistance with maintenance, always feel free to connect with the team to help guide you with your boating needs.

# **Chapter 10**

## **Using DiTEC Products**



## **Triton 2.0**

Your teak and wood protectant. This is a product that won't change the color of your teak or wood, keeping it in its natural state and giving you ultimate protection while not damaging the surface which can lead to other issues down the road.



Different from oils and sealants, Triton 2.0 will not seal off your teak or wood from the elements. Instead, it will bind to the teak fibers and protect, while still allowing the teak or wood to naturally breathe. This allows moisture in the teak to freely escape, reducing the chance of mold and mildew forming.

Triton 2.0 is not just great on your raw teak, but also other hard wood surfaces where you want to ensure you preserve the natural look without the damaging effects or the mess of sealants and oils.

### **Application/Directions:**

DiTEC Triton 2.0 is provided ready-to-use. **DO NOT DILUTE!** For best results, clean the surface with DiTEC Teak Magic, prior to Triton 2.0 application. Make sure to wear proper safety gear to protect eyes and skin. Shake bottle well.

Apply Triton 2.0 to a cool, clean, and dry teak or wood surface. DiTEC Triton 2.0 may be poured directly onto teak or wood surface, applied with a foam or cloth roller from a pail, or applied from a trigger sprayer or hand pump sprayer.

Pump Sprayer- Ideal for large deck sections as it goes quick. Be careful not to over saturate the area when spraying and apply

## **Triton 2.0**

in low wind conditions to keep more product going to the wood surface. You may want to back roll the area to ensure proper even coverage.

**Brush-** Great for tables and smaller areas that you want to do a simple controlled application.

**Paint Roller-** Great for large deck areas and providing nice even coating over the whole area. This method lays a thicker coating of product to the surface, which provides excellent protection and also easy to control without any additional clean up needed. Evenly spread out Triton 2.0 on the teak or wood surface, ensuring the entire surface is evenly covered and saturated. Do not allow Triton 2.0 to pool on the surface.

Allow one hour for drying and apply a second coat. The surface is safe to walk on once the Triton 2.0 is visibly dry.

Allow Triton 2.0 to fully cure for 12 hours, before wetting the surface. Try to avoid applying outside if rain is likely. If a hard rain occurs within 12 hours of application, another light coat may be necessary.

### **Tips:**

If Triton 2.0 gets on any paint or gelcoat surfaces during application, don't stress as it can be easily removed. Your next wash down will lift this off.

Also, Triton 2.0 is great as a porous rock protectant, adding a level of water proofing to the surface without making it slick to walk on.

The longer the product has to be absorbed into the wood

surface the better the level of protection that will be achieved. Rapid drying, will have more protection at the surface level than deeper into the teak surface.

For ongoing maintenance, teak decks should be washed monthly with DiTEC Boat Soap and a soft brush. To keep your teak deck looking new and fresh, clean with Teak Clean (depending on degree of teak graying, if any) instead of washing with soap. Use a Doodlebug polypropylene pad, instead of a deck cleaning brush and rinse thoroughly. Reapply Triton 2.0 sealant. When following a regular preventative teak deck maintenance program, sanding the decks will only be required to remove surface damage caused by accidents and normal wear and tear.

### Teak Clean

Teak Clean is a one-step, non-hazardous, teak cleaner and brightener used for light regular teak maintenance. Being in a liquid form Teak Clean gets right to work lifting the dirt and grime off the teak while not changing any chemical make up on the teak surface. This allows you to go with the grain lifting the dirt and having 90% LESS TEAK GRAINING OVER TIME THAN THAT OF OTHER PRODUCTS.



Teak Clean is also a highly effective spot treatment solution that gives you the ability to treat just a section of wood without having to do the full area should there be some mess or spills that occur on an unprotected section.

Different to other teak cleaning products on the market, for best results it should be applied to a dry deck or surface.

#### **Application/Directions:**

Make sure to wear proper safety gear, including nitrile gloves. For best results, apply DiTEC Teak Clean to a dry or slightly damp surface. DO NOT SATURATE THE WOOD WITH WATER!

1. Apply this product by pouring directly to the deck surface or applying with a chemical-resistant sprayer or pump sprayer.
2. Allow Teak Clean to soak/dwell on the surface for 30 seconds to 5 minutes. Using a polypropylene pad, agitate the surface allowing the product to work deeper into the teak.
3. Once the product has been agitated, you should already see a difference in appearance. Allow the product to work on its own for 5 minutes.

4. Clean the surface with a handheld or long-poled polypropylene pad (3M medium blue Doodlebug pad or similar) in the same direction as the wood grain.

Frequently inspect and rinse your brush or scrubbing pad to remove embedded wood fibers. Continue this process until no wood fibers are embedded after scrubbing. This will ensure a high quality result. THOROUGHLY rinse the deck clean with fresh water, and repeat steps 1-3 if necessary.

**WARNING:** If Teak Clean contacts any metal, stone or delicate surfaces, the surfaces must be thoroughly washed right away with soap and water.

### **Tips:**

1. Teak Clean is best used on a dry surface.
2. Keep a bucket with Boat Soap and a washmitt nearby to rinse off any product that has landed on areas other than teak.
3. Finish of the teak will be slightly lighter than that of Teak Magic.
4. Keep scrubbing until you notice all dead teak fibers are removed and no more dirt is coming from the surface.
5. If you are working large areas, it is recommended to have extra Teak Clean in a bucket to reapply to the surface to keep in wet with product.
6. If you are familiar with a two-part system, teak clean is the perfect addition to have for spot treatment in areas where you may not want to clean the entire deck.
7. Eco safe, readily biodegradable, and non-hazardous. Easy to acquire even when you are not near your local shop.
8. Can also be used to tackle small rust issues for a quick clean up if you don't have a rust stain remover.

After the final cleaning application using Teak Clean, disinfect

## Teak Clean

with DiTEC Bioclear if needed (to prevent mold or algae growth). When deck is completely dry and cool, apply DiTEC Triton to protect (for up to 6 months) against dirt, UV, rain, salt, oil, and food and beverage stains. For ongoing maintenance, if Triton has been applied to your teak decks for protection, wash weekly with DiTEC Boat Soap and a soft brush. If Triton HAS NOT been applied to your teak decks, clean every three to four weeks with Teak Clean (depending on degree of teak graying, if any) instead of washing with soap. Use a Doodlebug polypropylene pad, instead of a deck cleaning brush. Reapply Triton as necessary. When following a regular preventative teak deck maintenance program, sanding the decks will only be required to remove surface damage caused by accidents and normal wear and tear.\*

\*Teak Clean is not an alternative to sanding! Decks that are extremely gray, have severe mold, mildew, or algae, or have very deep grain structure, will require a deep clean with Teak Magic or a sanding to achieve a level and clean surface. Once the deck is in serviceable condition, the suggested DiTEC maintenance instructions will be highly effective in preventing annual or regular teak sanding. DiTEC Marine Products are maintenance and preservation products, NOT restoration products.

### Teak Magic

Teak Magic is a safe and effective, non-hazardous, organic and eco-friendly alternative to using harmful, competitive acids and caustic cleaners. DiTEC's two-part system is specially engineered not to destroy your teak or wood surface, instead it safely cleans and brings teak decks and wood furniture to their natural color and brightness. Its gel consistency makes it ideal for controlled application.



This product is concentrated and when mixed at the manufacturer's recommendation (1:4), a small amount of product will go a long way. This will save storage space, time, and effort as well as ensuring we help you look after your teak surfaces with less graining over time, 75% less!

#### **Application/Directions:**

##### **Step 1: Apply Teak Magic: Part 1 (Cleaner)**

Make sure to wear proper safety gear, including nitrile gloves. For best results apply DiTEC Teak Magic Part 1 to a damp surface.

1. In a clean bucket, mix one part Teak Magic Part 1 with four parts fresh water (1:4). Spread product completely and evenly onto the surface using a foam brush, deck brush or polypropylene scrub pad.
2. Allow Part 1 to dwell on the surface for 3-5 minutes.
3. Using a medium polypropylene scrub pad or soft bristle brush, make sure to scrub the teak with and against the

## Teak Magic Part 1 & 2

wood grain with medium pressure to loosen dirt or contaminant particles. Work in small areas to ensure the area looks uniformed once the process is finished.

4. When you see a golden color come through, the surface is clean and ready to be rinsed. Be sure to thoroughly rinse dirt and product off the teak with fresh water, including areas like cleats or scuppers where dirty water/product may flow and puddle up. Then apply Teak Magic Part 2 (Brightener).

### **Tips:**

1. Water is your friend in this process, don't be shy to use a lot more when rinsing than you think necessary. Be thorough and rinse everywhere, including where dirty water runs off.
2. Take your time, the cleaning stage is most important. You want to ensure that the dirt, grime and other contaminants have been properly removed from the surface.
3. Give the whole area a complete and thorough rinse to ensure that all product is removed.
4. Keep your pad clean through the scrubbing process, this will make sure you have a fantastic even color throughout.

### **Step 2: Apply Teak Magic Part 2 (Brightener)**

Make sure to wear proper safety gear, including nitrile gloves.

1. After thoroughly and completely rinsing off Teak Magic Part 1, remove excess puddles of water. Surface should be damp. In a clean bucket, mix one part Teak Magic Part 2 with four parts fresh water (1:4).
2. Apply Part 2 to the damp surface. Spread product completely and evenly onto the surface using a foam brush, soft bristle deck brush or medium polypropylene scrub pad. There is no need to scrub the product in this step, let the product do the work.
3. Allow Part 2 to dwell on the surface for 3-5 minutes.



4. After teak has brightened, rinse the surface thoroughly with fresh water, including areas like cleats or scuppers where dirty water/product may flow and puddle up, to ensure the product is entirely off the surface. Blade and dry the teak off and allow teak to dry for 24 hours.

When teak is completely dry and cool, apply DiTEC Triton 2.0 to protect (for up to 3-6 months) against dirt, UV, rain, salt, oil, and food and beverage stains.

### **Tips:**

1. Teak Magic is eco safe, non-hazardous and readily biodegradable. This allows you to purchase and avoid the pesky hazardous shipping costs.
2. The product is user friendly, giving you the confidence to tackle those teak projects you have been putting off in fear of something going wrong.
3. It will not give you the burns and etching effect on the stainless steel onboard, saving you additional time spent detailing after you have finished the teak cleaning process.
4. Cuts down the storage needed by at least 2.5X.
5. If your deck has been treated with Triton 2.0, you can use a lower ratio, as you won't need a heavy clean at that stage as it's all surface.
6. Keep Teak Magic in its concentrated form. Its gel consistency is easy to work with if you need a very specific application.

### Bioclear

DiTEC's Bioclear is an advanced EPA Registered Disinfectant designed to provide effective cleaning, sanitation, disinfection and mold prevention. It is a mold, mildew, and germ killer and continues to work after it has been applied and effectively kills Human Coronavirus, SARS COV-2, COVID-19, and many other germs and bacteria. **\*\*BIOCLEAR IS NOT**

**A HEAVY MOLD CLEANER.** Heavy mold or other visible surface contaminants must first be cleaned off with DiTEC Wipeout before applying Bioclear.\*\* Once Bioclear is applied it continues to work until it is removed from the surface by external elements or wiped off the surface.



### Instructions and Suggested Dilution/Directions For Use As a One-Step Cleaner:

1. Pre-clean heavily soiled areas or surfaces with DiTEC Wipeout.
- 2. Highly concentrated, mix 2 oz of product with one gallon of water,** solution is effective for use for up to two weeks.
3. Apply mixed solution to disinfect hard, non-porous surfaces with a sponge, brush, cloth, mop, by immersion, auto scrubber, mechanical spray device, hand pump, coarse pump or trigger spray device. For spray applications, spray 6-8 inches from surface. Do not breathe spray. For teak and wood surfaces pre-clean area to be treated with Bioclear with DiTEC Teak Clean, following instructions.
4. Treated surfaces must remain wet for 10 minutes.
5. For teak or wood surfaces allow to air dry.
6. Prepare a fresh solution daily or when visibly dirty.

Bioclear is not just for mold and algae on your decks but also great for the following areas:

- Wet lockers where mold keeps coming back
- A/C condensers
- A/C vents
- Teak decks where mold and algae come through
- Damp storage areas
- Disinfect if there is any outbreak onboard

We recommend using BioClear as part of your maintenance onboard ensuring mold and mildew is kept away and that your vessel remains clean.

**Tips:**

1. If using on teak decks where mold is persistent, you'll want to apply every two weeks for maintenance or weekly to treat mold and mildew that has contaminated the teak decks. Note that in closed lockers you would want to treat these areas every 30-40 days.
2. If you have large, molded areas, clean well prior to using BioClear, Scrub Teak Decks, Clean out lockers etc.
3. If using in wet lockers, spray monthly to ensure the mold stays at bay.
4. If using on AC condensers use alongside with your monthly maintenance schedule to keep the mold and mildew away. Spray product on coils and damp areas and leave on the surface.

### Black Streak & Non-Skid

Black Streak and Non-Skid Cleaner is safe to use on painted and gelcoated surfaces. It is also safe for surfaces that have been coated with wax or protective coatings. The combination of both a black streak and non-skid cleaner in one product reduces the number of products needed on board all while providing maximum performance.



#### Instructions/Directions:

This product may be used as a pre-treat/pre-clean before a washdown with Boat Soap.

#### **Black Streaks: (Use if Boat Soap is not able to remove the dirt and streaks from the surface):**

1. Spray or wipe onto areas with black streaks.
2. Leave on surface for approximately one minute.
3. Wipe off surface with wash mitt or microfiber. If the black streak is not removed allow the product to react with the surface for 1-5 minutes.
4. Rinse off treated area with fresh water.

#### **Non-Skid:**

1. Spray or apply with a brush on the non-skid surface.
2. Leave on the surface to work for approximately one minute before starting to clean. If the contamination is not removed immediately, allow the product to react with the surface for 1-5 minutes.
3. Using a soft to medium brush move in a mixed direction to get between all the valleys of the non-skid.

4. Once cleaned, rinse off with fresh water, ensuring you rinse surrounding areas that may have had some additional runoff.
5. Dry the surface.

### **Tips:**

1. A little bit of product goes a long way, don't overuse. Start by using small amounts and work your way up.
2. Allowing the product to work for you is the key to helping get the best results on the surface.
3. If you are seeing black streaks, it's a good indication your boat or yacht may be in need of some protection on the paint or gelcoat to help prevent the dirt and grime from binding to the surface.
4. Safe to use on ceramics and waxes, but the wear on waxes will increase if used more frequently as opposed to regular wash downs.

### Boat Soap

Boat Soap is a highly concentrated formula that is not only safe for paint and gelcoat but also safe for any waxes and ceramic coatings you may have on your boat or yacht. Mixing just 1 oz of concentrate for each gallon of water, you will have a PH neutral, eco safe, and readily biodegradable (MARPOL Compliant) wash solution that will easily lift the dirt and grime from the surface while also having the suds and cleaning power that you would expect from a top tier soap.



With the concentration of our Boat Soap, you are getting 128 gallons of washing solution from just a single gallon of product, so no need to empty half the bottle into your bucket. Just two capfuls for each gallon!

#### Instructions/Directions:

1. Add 1 oz of Boat Soap in 1 gallon of clean water (1:128). Add an additional 1-2 oz per gallon for a very dirty or heavily soiled surface. Roughly 10 capfuls for every 5 gallon bucket is all that is needed.
2. Rinse off the boat's surfaces to remove any heavy particles that may scratch up the surface.
3. Using a soft cloth or washmitt, start washing down with your mixed solution of Boat Soap and water. We always recommend starting at the highest point and working down.
4. Be sure to rinse off any remaining product once the area is washed. Do not allow the area to dry while you have soap on it. If the product has dried on the surface, go back and wash it again.

5. Once washed and thoroughly rinsed off, dry the surface with a microfiber cloth.

### **Tips:**

1. Always ensure you use enough water when rinsing, if in doubt, rinse a little more.
2. Don't overuse the Boat Soap, it's concentrated to save you space, money and time. Just 1 oz/gallon is all you need.
3. Keep your washmitt and brushes clean, you don't want to pick up and sand or gritty particles that may scratch your surface.
4. When you have finished the bucket of wash, rinse it out before mixing up a new batch, this helps avoid getting any additional contamination in the wash.
5. Soft brush is your friend and a wool hand mitt, always start with the least aggressive point before working your way up. This saves your paint and gelcoat and prevents premature wear on the surface.
6. Start at your high point and work down, this allows you to wash where soap and dirt may run off.
7. Dry the surface once it's clean, this will make it more difficult for dirt and grime to attach itself to the surface.

### Hull & Bottom Cleaner

Hull & Bottom Cleaner is a less corrosive organic acid replacement to be used for removing marine growth and mineral deposits from the hull of your boat. It can also be used in closed coil cooling systems. Hull & Bottom is effective in removing growth, barnacles, rust, stubborn streaks and calcium build ups on all surfaces.



#### Equipment Needed:

- Hull & Bottom Cleaner
- Bucket
- Gloves
- Goggle/Eye Protection
- Washdown Pole
- Medium Brush
- Sprayer (if spraying product is preferred)
- Hose with Connected Water
- Boat Soap

#### Instructions/Directions:

1. Wet the surface prior to applying Hull & Bottom Cleaner to assist in the removal of dirt that may lead to scratches on the surface if you will be using a brush.
2. Put on gloves to avoid unwanted contact of the product on your skin.
3. In a bucket, pour in Hull & Bottom Cleaner. Use a small amount at a time to avoid wasting the product as well as being able to then rinse out the product and dirt that may be in the bucket was you go.
4. Using a pole and brush, dip the brush into the product, and



then brush it onto the surface you are looking to remove the hard marks, growth and build up.

5. Allow the product to sit on the surface, 30-60 seconds is usually adequate time. You should see a white foaming action start as the product gets to work breaking down the deposits, growth and hard marks.
6. Once the reaction slows, brush the surface with the same brush, brushing away the water stains, growth and deposits from the surface.
7. If the marks remain, repeat the application of the product on the hull and allow to dwell for a bit longer.
8. Rinse off well after the area is clean, as with any product you do not want it to dry on the surface.
9. We like to follow up with a quick wash of Boat Soap, to 100% remove any residue that may remain behind.

### **Tips:**

1. For small areas that don't require brushing the product on, you can use a wipe cloth or microfiber to spot treat some areas. Be sure to rinse off well.
2. For close coil systems, it's a great alternative to acids that have to be correctly disposed of, as you are able to rinse Hull & Bottom Cleaner into the waterways.
3. Can be used on hard metals, but avoid use on soft metals (i.e. stainless props and trim tabs will benefit when needed to remove growth and rust from them).

### Metalon PX

Metalon PX is an all-in-one cleaner, polisher, and protectant that is safe to use on all metal surfaces, including your stainless steel, brass, chrome and silver. Metalon PX cleans the surface and leaves a protective coating to prevent rust and corrosion as well as reduces dirt adhesion.



#### Equipment Needed:

- Metalon PX
- Microfiber Cloths

#### Instructions/Directions:

1. Check to ensure your metal does not need a restoration product, heavy pitting or hard rust marks. If this is the case, use something like Star Clean wet polish or Flitz prior to restore the surface.
2. Once the surface is needing a light clean and polish, Metalon PX is the perfect product.
3. Apply Metalon PX to a microfiber cloth, wipe and buff the surface. Ensure you have good coverage and reapply as the product begins to stop going on the surface
4. Buff off the excess product with a clean microfiber to get a great shine and finish throughout.
5. For longer protection, protect the metal further using PROTEC 1.

#### Tips:

1. Metalon PX is great to remove light surface rust, stains and contaminants from the surface.
2. Easy to use one step process bringing a great finish to the metals.
3. Leaves light protection behind to increase detail time between cleanings of your metal.

## **MVP**

MVP is ready-to-use vinyl and canvas protectant. It does not enhance the shine or gloss of the surface, and will not leave behind a sticky residue.

### **Equipment Needed:**

- MVP
- Microfiber Cloths



### **Instructions/Directions:**

Always test product on inconspicuous area prior to full surface application.

1. Out of direct sunlight, spray MVP evenly and directly onto a dry and cleaned surface. Let dwell on surface for 2-3 minutes (but do not let completely dry), then very lightly and evenly wipe away excess with a clean microfiber cloth. To maintain protection, apply as needed.

### Wipeout

Wipeout is a concentrated/ready-to-use all-purpose cleaner/degreaser, both rolled into one. Its bleach-free and non-fuming composition allows it to be used on multiple surfaces including paint and gelcoat, canvas, carpets and vinyl. The combination of both a cleaner and degreaser in one product reduces the need for extra products on board and also aids in training crew on its use.



#### Instructions/Directions:

1. Spray Wipeout directly onto surface, allow to sit for one minute.
2. Agitate the surface using an appropriate soft cloth, sponge, or deck brush, depending on the surface.
3. If the oil, grease, or soot is not removed immediately, allow the product to react with the surface for 1-5 minutes.
4. Ensure you wipe off any remaining residue or rinse with fresh water.

#### Tips:

1. Can be used as a pre-treat with light scrubbing prior to a washdown with Boat Soap.
2. Highly concentrated product. Can be diluted down up to 50% for lighter cleaning or used at full strength for more aggressive cleaning.
3. High-efficiency, cleaner/degreaser designed for the most demanding tasks.
4. Safely removes organic stains, dirt, oil, grease and grime.
5. Use to replace bleach-based products for cleaning and whitening.

6. Non-fuming formulation for use in confined spaces (bilges), on carpets and in interiors and closed quarters.
7. Use in engineering spaces to remove any dirt, oil grease and contaminates, or out on deck for areas that may not be able to get clean with a simple wash down.
8. Great in the galley for greasy messes and when harmful chemicals cannot be used with food sources present.
9. Deep clean your vinyl using Wipeout prior to applying a UV and water protectant.

### G200

G200 is a great answer for polishing and removing the hard water marks, acid burns and light scratches from the glass surface. This is to only be used on glass surfaces to polish and bring back their like new look. It will bring your old, dirty, etched or lightly scratched glass back to like new condition.



#### Equipment Needed:

- Glass Polishing Pad
- G200
- Clean Microfibers
- Crystal Clear
- Forced Rotation Orbital Tool
- Tape

#### Instructions/Directions:

1. Tape off any caulking or painted surfaces around the area to avoid any damage from the tool hitting the paint and allowing for easy clean up on the caulking. We like to use Scotch blue tape as it comes off easy without any left residue, but good quality masking tape is what you are looking for.
2. Give the glass a quick wipe down to remove any sand or contaminants that may cause scratches when you are polishing. Use a clean microfiber for this with a light spray of Crystal Clear.
3. Apply the Glass polishing pad to your tool if you are planning to use one. The pad has a heavy duty felt backing to give great adhesion to the tool.
4. Set your tool to its lowest setting to start, 300-400rpm.
5. Apply 4 pea-sized drops of G200 to the glass polishing pad

in various areas to ensure that you have good lubrication and adequate product on the glass polishing pad for best results.

6. Once the product is applied to the pad, place the pad flat to the surface and start the rotation. Work in an up and down motion following with a side-to-side motion to get even polishing throughout.
7. Apply G200 to the pad as needed or you start to see that the surface is not getting polish over it. Use just 4 pea-sized drops with each application.
8. Start at the top and work your way down, cleaning the excess off the surface as you go.
9. Once completed the glass that needs polishing, you can wipe off any remaining residue with a microfiber and crystal clear.
10. How to tell for perfectly cleaned and polish glass is a rainbow effect on the surface when you spray Crystal Clear on it and wipe it off.
11. If the glass area is much larger, you can also wash off any remaining residue with Boat Soap and then dry properly to not have any water marks.

Now you are ready to apply Glasstec glass protection to your glass surface!

### Crystal Clear

Crystal Clear is an alcohol blend that is used to prep and clean surfaces from contaminants prior to applying any protection products intended for paint, gelcoat or glass. Its easy-to-use spray bottle is perfect for misting the product over the surface to clean and prep. It's used throughout the system to check the progress and get you to the end result.



#### Equipment Needed:

- Clean Microfibers
- Crystal Clear

#### Instructions/Directions:

1. Identify the surface you wish to clean and prep.
2. Turn the tip of the nozzle to desired setting, spray or stream. Use stream only if you are applying directly to your microfiber, otherwise set it to spray to avoid Crystal Clear splashing off the surface.
3. Lightly mist the surface to ensure you have the Crystal Clear all over.
4. Wipe off Crystal Clear using a clean microfiber.
5. Check surface to ensure its clear.
6. Continue to your application of the selected protective coating for your surface.

#### Tips:

1. Along with prepping the surface for coating, you can also use Crystal Clear to clean all your glass. Interior and exterior!
2. Once wiped off, the excess on the surface will evaporate leaving you with a streak free clean surface.



## Glasstec

Glasstec is a protective coating that is used on glass surfaces only. This is not to be used on Isinglass or Plexiglas surfaces. The protective bond is between the Glasstec and the glass surface, giving a long-lasting protection that also exhibits hydrophobic qualities when applied correctly. **It will prevent contaminants such as salt, calcium, and mineral deposits from bonding to the surface, eliminating staining and water spots.**



### Equipment Needed:

- Lined applicator pad
- Clean Microfibers
- Crystal Clear
- Gloves
- Glasstec

### Instructions/Directions:

1. You'll want to ensure that the glass is cleaned and polished prior to application. If your glass has hard marks or acid burns, Glasstec will still work, but these damaged areas will show. Follow the guidelines in glass cleaning and polishing if you haven't already done so.
2. Put your gloves on. Nitrate gloves work best and ensure they are powder free to avoid any contamination from the powder.
3. Clean and decontaminate the surface from dust and contaminants that may be on the surface using Crystal Clear. This will effectively prepare the surface for Glasstec. Be certain you wait for any of the Crystal clear residue to evaporate before continuing to apply Glasstec.
4. Work in small sections, 3 ft. x 3 ft., at a time until you get

comfortable with the application of Glasstec

5. Apply Glasstec using the dripper bottle onto your application pad. We advise using a high quality line microfiber applicator pad as this keeps the product on the pad and prevents it from being absorbed by the pads foam. Use a quarter of the pad at a time. Lubricate the pad well to ensure you have adequate product to cover the desired area.
6. Apply the Glasstec using a cross-hatch method to ensure even coverage on the glass.
7. Once completed, wipe off the residue with a clean microfiber before moving to the next section.
8. Continue application until you have completed the desired area you need protection on.

### **Tips:**

1. One coat of Glasstec is all that is needed as layering won't give added protection like ceramic coatings.
2. To see which areas are done, use the back of your nail to feel the silky feel to know which areas are treated and which are not.
3. Coating with Glasstec will give up to a year of protection on your glass surfaces and create an environment that is easier to maintain saving you time.
4. Application is clean and won't have the concern of dipping product from prefilled application pads or wasted product when using.
5. On hot days, you'll want to work in smaller sections as the cure time will be quicker and want to wipe the residue off once the alcohol in the Glasstec has evaporated.
6. Perfect solution for exterior boat windows, shower doors and car windows.

## **PROTEC 1**

PROTEC 1 is a single stage coating that is user friendly in its nature. It goes on as easy as a wax and comes off the surface with the use of a microfiber, while giving you protection that lasts. Its primary use is protection for painted and gelcoat surfaces, however its physical/flexible protective properties offer superior protection on vinyl and plastic, providing a long lasting UV and hydrophobic barrier (for up to 4-6 months) and a deeper, darker appearance. This versatility allows for use on hard plastics, vinyl, and stainless steel. It has excellent water beading, hydrophobic, qualities as well as with a single coat protection that lasts upwards of a year. It's forgiving enough that anyone is able to open the bottle and get to work using it.



### **Equipment Needed:**

- PROTEC 1
- Lined Applicator Pad
- Crystal Clear
- Clean Microfibers
- Gloves; Nitrile with No Powder
- Timer

### **Instructions/Directions:**

1. Put your powder free nitrile gloves on.
2. Get your surface to a point that you are happy with prior to applying. The better the surface condition, the better the protection.
3. Get your Crystal Clear out and spray the surface, wipe off the Crystal Clear using a microfiber. This ensures that there

## PROTEC 1

are no contaminants on the surface to weaken the bond of PROTEC 1 to the surface.

4. Get the applicator out and open the bottle of PROTEC 1. The bottle has a dripper cap, so application to the pad is made easy and no worry of spilling PROTEC 1 all over.
5. Apply PROTEC 1 to your lined applicator pad. Use one quarter of the pad at a time. Apply a good amount to start and lubricate the quarter of the pad with PROTEC 1. About 15-20 drops is a good starting point.
6. Working in defined sections Apply starting at one top corner and work your way across and down. Use a crosshatch method covering the full coverage. Apply more PROTEC 1 to the pad as it starts drying.
7. Once PROTEC 1 is applied to the section, wait approximately 5 minutes before testing the area to see if it's ready to be removed. You are looking for a slight tacky feel on the surface.
8. Test a small section that is done with a clean microfiber, if the microfiber has no resistance wait 2 more minutes and test again.
9. Continue this approach to see when the product starts to tack up and you can gauge a good time frame to wipe off the excess from the surface.
10. Once the surface with PROTEC 1 is slightly tack, using a clean microfiber wipe off the excess. We recommend that you use one microfiber to do the initial wipe and then follow up with a clean microfiber to remove any remaining residue on the surface.
11. Buff off the surface until all the product is removed from it.
12. Continue working in sections and applying PROTEC 1.

**Tips:**

1. Prep work is vital to getting the best results.
2. Work clean and in smaller sections to start out to gauge the flash time of the product.
3. Applying a second coat after 24 hours increases the protection on the surface.
4. Allow to cure for 24 hours before applying water to the surface and 5-7 days to get to full cure.
5. Reach out to the DiTEC team should you have any question or needing additional assistance.

## PROTEC Base Coat

### PROTEC Base Coat

PROTEC Base Coat is a professional grade ceramic that is a harder, more protective layer for PROTEC Top Coat to bind to. It provides a greater level of protection for the surface while maintaining ease of use and longer flash times. This allows for better working time without the hassle of the product flashing midway through the job. PROTEC Base Coat is to be used prior to PROTEC Top Coat.



**NOTE: PROTEC Base and Top Coat are for professional installation only.**

#### Equipment Needed:

- PROTEC Base Coat
- Lined Applicator Pad (one provided with each bottle)
- Crystal Clear
- Clean Microfibers
- Gloves; Nitrile with No Powder
- Timer

#### Instructions:

1. Prepare the surface with your polishes and compounds to get it to its best possible state. This is vital as the finish on the surface will be locked in once the PROTEC Base Coat is applied.
2. Prepare the surface with Crystal Clear and clean microfibers, this is to remove any excess dust, oil and contamination from the surface. Use gloves when doing this, as your hands contain natural oils that could contaminate the surface.
3. Prepare your clean microfibers, we suggest three per area that is being done. First is for the initial wipe to remove excess product. Second is to get the light film off that may

be left from the first wipe. Third is the final wipe to have the surface clean from all excess product and to bring the high gloss back.

4. Get the supplied applicator pad and your Base Coat, we always recommend using a lined microfiber applicator to prevent the product from soaking into the foam.
5. Apply the Base Coat to the applicator. Remember a small amount goes a long way.
6. Allow the product to flash. This is very dependent on the environment; higher heat will result in quicker flash times. It's recommended to test a small area first to see the timing that's needed. Flash time usually ranges from 12-30 minutes depending on your location and where the installation is happening.
7. Wipe off the excess, this should wipe off with ease and not leave an oily film behind. If you see an oily film, allow the product to sit on the surface for longer.
8. Allow 24-hours for product to cure before following with PROTEC Top Coat.

### **Tips:**

1. Prep work is vital, the better prepared the surface the better the results.
2. Work clean. Don't contaminate the microfibers and keep your applicator pad clean and not in any dust.
3. Close the cap of PROTEC Base Coat when not in use.
4. A 24-hour cure time is best before installing Top Coat.
5. Two coats of Base Coat will provide a higher level of protection to the surface. It is recommended to do this on high wear areas that tend to receive more abuse over time.
6. Discuss with the DiTEC team if there are any issues or assistance needed with installation.

### PROTEC Top Coat

PROTEC Top Coat is a professional grade ceramic coating that is to be used after installing PROTEC Base Coat. With a more flexible formula in conjunction with the PROTEC Base Coat, it aids in bringing a higher gloss to the surface, reducing the risk of micro fractures in the coating as well as giving the surface that excellent hydrophobicity to get water off quicker. With an increased work time compared to other coatings on the market, it's a professional's dream to work with. The two-part Base and Top Coat system keeps boats and yachts looking better for longer.



**NOTE: PROTEC Base and Top Coat are for professional installation only.**

#### Equipment needed:

- PROTEC Base Coat
- Lined Applicator Pad (one provided with each bottle)
- Clean Microfibers
- Gloves; Nitrile with No Powder
- Timer

#### Instructions:

1. Ensure that the Base Coat has had 24 hours to fully cure on the surface.
2. Wipe down the surface with a dry microfiber cloth to remove any dust, do this using gloves as to not contaminate the surface.
3. Prepare your clean microfibers, we suggest three per area that is being done. First is for the initial wipe to remove excess product. Second is to get the light film off that may be left from the first wipe. Third is the final wipe to have the



surface clean from all excess product and to bring the high gloss back.

4. Get the supplied applicator pad and your Top Coat, we always recommend using a lined microfiber applicator to prevent the product from soaking into the foam.
5. Apply the Top Coat to the applicator pad and work in a cross-hatch pattern to ensure even coating throughout. Flash time is on average around one-third of the time to that of the Base Coat.
6. Allow the product to flash. This is dependent on the environment that the product is applied in, cooler temps allow for longer working windows versus hotter temperatures and higher humidity.
7. Wipe off the excess, you want to see a clean wipe with no oily residue remaining behind. If you do see this film, wait a bit longer before wiping off.
8. Allow 24 hours before having water hit the boat or yacht. This is to allow the product enough time to set up and fume off the carrying agents and harden on the surface.

### **Tips:**

1. Work in manageable sections, this allows for enough time to apply and wipe off the excess.
2. Work clean. Keep things organized and out of dust and dirt as well as moisture.
3. Close cap of the Top Coat when not in use.
4. Apply only one coat of Top Coat. This does not stack like the Base Coat
5. Discuss with the DiTEC team if there are any issues or assistance needed with installation.

## PROTEC Quick Coating

### PROTEC Quick Coating

Protec Quick Coating is the perfect addition to the cleaning and detailing setup. It is easy to use, and when used as a stand-alone product, gives the same longevity (8-12 weeks) as a traditional wax without the extended application time. This is the ideal product for smaller, new boat owners to easily protect their boat's surfaces. It is also used as part of the PROTEC system to rejuvenate and extend the life of a PROTEC 1 protected surface. PROTEC Quick Coating can also be used as a quick detailer for light surface cleaning, adding protection to your coated surface as well as a way to prep all the painted surfaces prior to guests arrival leaving a fresh scent and a slick feeling boat.



#### Equipment Needed:

- PROTEC Quick Coating
- Clean Microfibers

#### Instructions/Directions:

1. Have the surface cleaned from heavy dirt that could cause scratches. Wash prior if needed with Boat Soap.
2. Have at least two clean microfibers ready, one is going to help spread PROTEC Quick Coating and the other is there to buff off the residue should there be any.
3. Using the spray bottle, lightly mist the surface, around 4-6 sprays will cover a 6 ft. x 6 ft. section, so a small amount goes a long way.
4. Mist one section at a time, then using your first microfiber wipe down the surface.
5. Follow up with your second microfiber to buff off any remaining residue and move onto the next section.

6. Continue this until you have completed the area you wish to do.
7. If you are using a gallon bottle of PROTEC Quick Coating, dab a small amount on a microfiber and wipe over the surface.
8. Once covered, use a clean microfiber to buff off any remaining residue.
9. Make sure to wipe off any surrounding areas that may get some product on.
10. Let dry and see the results of PROTEC Quick Coating.

### **Tips:**

1. PROTEC Quick Coating is part of the PROTEC System, its ideal use is once the surface has been coated with PROTEC 1 that you spray PROTEC Quick Coating on every three months to keep the surface in excellent condition.
2. If you have had the professional line of PROTEC Top and Base Coat applied then you will want to follow up every three months with PROTEC Quick Coating as well to ensure you look after the coating on the surface.
3. If you are not planning on having a coating on prior to using PROTEC Quick Coating, use monthly or every second month to keep your paint or gelcoat protected and avoid the oxidation on the paint.
4. If you are doing any small detail work and cleaning up hard marks on your paint or gelcoat, always follow up with a quick spray of PROTEC Quick Coating to give the surface that added protection and avoid dirt binding again.
5. PROTEC Quick Coating also has some light cleaning aspects, so it's recommended testing the area to see if it will clean with PROTEC Quick Coating first before moving onto other solutions.

### Heavy Cut Compound

#### Instructions/Directions:

For the DiTEC Heavy Cut Compound, we recommend using the yellow trapez foam polishing pad.

1. Apply a sufficient amount of the polishing compound to the polishing pad or to the painted surface.
2. Spread evenly over the defect at a low speed (approx. 1000 rpm), speed to approx. 1800 rpm. Increase and polish off the flaw using light pressure.



#### Recommended Pads For Use With Fine Cut Compound:



Yellow Trapez Foam Pad (150 mm, 175 mm): Made for high cut/high gloss effect. Suitable for moderate-to-high cut correction of all modern paint types and gelcoats. Mostly used for correction of medium hard paint.



Gray Microfiber Pad (165 mm): Made for use on paint with heavy oxidation or scratches.



White Microfiber Pad (155 mm): Made for use on paint with even heavier oxidation or scratches.

### Medium Cut Compound

#### Instructions/Directions:

For the DiTEC Medium Cut Compound, we recommend using the orange trapez foam polishing pad.

1. Apply a sufficient amount of the polishing compound to the polishing pad or to the painted surface.
2. Spread the compound at a low speed (about 1000 rpm) on the defect and at about 1600 rpm using moderate pressure.



#### Recommended Pads For Use With Fine Cut Compound:



Orange Trapez Foam Pad (150 mm, 175 mm): Made for medium cutting/high gloss effect. Suitable for both finishing and moderate cut correction of all modern paint types and gelcoat. Usable for one-step correction, and very good for finishing work after heavier corrections.

### Fine Cut Compound

#### Instructions/Directions:

For the DiTEC Fine Cut Compound, we recommend using the red trapez foam polishing pad.

1. Apply a sufficient amount of the polishing compound to the polishing pad or to the painted surface.
2. Spread the compound at a low speed (about 1000 rpm) on the defect and at about 1600 rpm using moderate pressure.



#### Recommended Pads For Use With Fine Cut Compound:



Red Trapez Foam Pad (150 mm, 175 mm): Made for low cutting/high gloss effect. Suitable for finishing and fine cut correction of all modern paint types.



Gray Trapez Foam Pad (150 mm, 175 mm): Made for minimal cutting/super high gloss effect. Suitable for finishing and hologram removal on all modern paint types and gelcoat. Especially suitable for softer and darker paints.

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## **Eco-Friendly Products & Environmental Responsibility**

DiTEC Marine cleaning products are readily biodegradable, free of harsh and harmful chemical ingredients and comprised of environmentally responsible raw materials, protecting the marine ecosystem and all that inhabit it. Our cleaning products are classified as 'not a marine pollutant', can be safely rinsed overboard with fresh water, and are fully compliant with the regulatory guidelines set by MARPOL Annex III and Annex V.



**MARPOL**  
International Convention for the Prevention of Pollution from Ships  
**COMPLIANT  
CHEMISTRIES**



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