



## Superior Fiberglass Restoration, Protection & Shine Trusted For Over 25 years!

### Your Guide to Restoring Your Older Boat & RV with Poli Glow®

**Congratulations on your purchase of Poli Glow®!**

It's a product unlike any you've used before.

Poli Glow is the next-generation, cutting-edge gelcoat and fiberglass restorer. There's nothing else like it available on the market today.

For thirty years, the Poli Glow® family of products has protected Boats and RVs and made them look their best across the United States, Canada, Australia, New Zealand, the Caribbean, Hong Kong, South Africa, and Europe. Not only are our products unique and of the highest quality, but they're also environmentally friendly, so you never have to worry that you're harming the waterways and roadways you love.

If you are reading this, your Boat or RV was once glossy and beautiful, and now it is faded and dull. This guide will instruct you on why this happened, how to fix it, and how to use Poli Glow® products to restore the brand-new look to your older Boat or RV. This includes using Poli Glow®, Poli Prep™, Poli Ox™, our White Non-Abrasive Scrub Pad with blue handle, the Ultra-Fine Sanding Pad, and the Poli-Mitt™ applicator. We supply these products as a bundle in our most popular **Poli Glow® Deluxe Kit**. Each product has a purpose. Please read all of the instructions to learn and understand why our products work, with proper use, to make it easier to care for your Boat or RV, and make it shine with a **#glossthatboss™!**

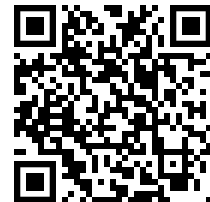
**Prefer watching videos?** Check out our instructional videos at

[www.poliglow.com/instructions](http://www.poliglow.com/instructions)

POLI GLOW® FORMULAS  
ARE PROUDLY



MADE IN USA



## INTRODUCTION

### **Why does my Boat or RV look old, faded, and dull?**

We are so glad you asked that question because it is the key to understanding why sealing and protecting your Boat or RV is so important, and why Poli Glow® performs this function in a way that simplifies your life and yet provides the highest gloss, and longest-lasting shine on the market. Poli Glow® is the sealer of choice for do-it-yourselfers and detailers across the globe because they understand what you are about to learn in this guide.

The process that causes this degeneration is called **Oxidation**. It will be helpful to define the terms “Boat” and “RV” and discuss the outer surface's construction to understand why our products work so well to seal and protect against oxidation.

### **What kinds of Boats & RVs can be treated with Poli Glow® products?**

Poli Glow® has been applied to and has been used on many different types of Boats and other watercraft including fishing boats, bass boats, cruisers, deck boats, house boats, sailboats, trawlers, tug boats, catamarans, canoes, jet skis, and wave runners. The types of RVs that have been sealed and protected with Poli Glow® include motorhomes, campers, travel trailers, 5th wheels, toy trailers, and popup trailers.

### **Why are Boats & RVs made from?**

Most Boats and RVs are made of a fiberglass shell that contains an outer protective layer called gelcoat. Some RVs are covered with a painted aluminum (stick and tin RVs) instead of gelcoat to lower the cost. This is different from the shiny aluminum travel trailers that are unpainted. Some higher-end vehicles have full body paint (FBP) over the gelcoat where the paint has a thin layer of clear coat over it for protection, very similar to a car or truck or the cab of a Class C RV. This increases the cost dramatically but lasts much longer than gelcoat. Fiberglass and/or aluminum are used to construct Boats and RVs instead of steel because both are strong, highly durable, weigh significantly less than steel, and allow more cost-effective construction. Fiberglass construction is more affordable and fuel efficient.

**Gelcoat:** Gelcoat is the protective layer over the fiberglass that gives your Boat or RV its shine when brand new. It is typically seen on Class C RVs, some Class A RVs, and towable RVs. Most Boats nowadays are made from fiberglass with a gelcoat protective layer. Gelcoat is made from plastic polymers that have great hydrophobic (water-repelling) properties and resistance to chemical corrosion. A polymer is a chain of molecules linked together in a string with many others of the same or different molecules. The types of plastic molecules used to form that chain can affect the properties of the polymer/gelcoat, making it more or less durable. Gelcoat is usually thicker on Boats (4-5 mm) than on RVs (1-3 mm) for protection. Boats are in constant contact with water which would damage the fiberglass if it penetrated through. Boats are also exposed to harsh chemicals from the mechanical equipment that can damage the surface. The surface of Boats are well used, for example, by people walking on the deck, carrying fishing equipment, etc. The gelcoat can take a beating from use justifying the thicker application.

**Painted Aluminum, Plastic, and Full Body Paint (FBP):** An example of painted aluminum RVs is the stick-and-tin type which is painted corrugated aluminum (it looks like siding). FBP, on the other hand, is usually applied to Class A and B, and some Class C RVs and increases the cost dramatically. Some RVs have parts that are gelcoat and parts that are painted aluminum or plastic; sometimes, those parts are covered with a clear coat. Please refer to the manufacturer

for details. The clear coat is another plastic polymer that can oxidize over time, but it takes much longer. Usually, the clear coat lasts 10-15 years but can last longer if properly maintained. You can see evidence of the breakdown of clear coat in older cars or trucks where the parts most hit by the sun have faded and the paint is peeling. The plastic components on RVs can make up parts of the sidewall or the cap. The plastic can be painted or can be impregnated with the color.

**Note:** It is important to consider the construction and make-up of the outer layer of your Boat or RV because it will affect what equipment and products are used during restoration. For example, a high-speed buffer can burn right through the gelcoat on an RV due to its limited thickness. Some paints or clear coats used by manufacturers are less durable and may be affected by some of the cleaning products, so care must be taken to prevent damage during the cleaning process.

### **What is Oxidation and is it a problem?**

Oxidation is the process that breaks down and destroys the outer protective layer, whether it is gelcoat, paint, or clear coat, and causes your Boat or RV to look dull, faded, and aged.

Oxidation happens as a result of the elements, including UV radiation from the sun, moisture (humidity), and heat (temperature). These elements cause a breakdown of the polymer chains in the finish on the surface of your Boat or RV, which is why the surface looks dull and faded, and why the decals and graphics fade and crack (yes, they are made of polymers too!). UV radiation penetrates deeply, damaging the polymers throughout the protective layer to varying degrees. The more superficial polymers take the brunt, being hit with the majority of the UV rays, moisture and heat. The polymer chain fragments, discolors, and flakes off, forming a visible **chalky layer** that comes off onto your fingers. The deeper polymers are more protected, sustaining less fragmentation, but color changes in the pigment can still occur. **Opacification** is an example of the process of oxidation that causes clear parts to become cloudy, like headlights and other plastic components. **Yellowing** of the gelcoat is an example of pigment change from UV radiation. This problem is inherent to the types of polymers used to make the gelcoat.

**Ghosting** is another example, seen when decals or graphics are removed. The gelcoat deep to the decal is unaffected by UV radiation and maintains the original color while the pigment in the surrounding gelcoat changes, being oxidized by UV radiation. The silhouette of the graphic is obvious. Rubber components, such as gaskets around windows and doors, can oxidize and crack, what is typically described as “**dry rot.**”

In gelcoat finishes, there is some inherent UV resistance, but the sun will eventually win and degrade the polymers over time. Typically, the process of oxidation takes about 4 or 5 years to become visible if left outside and possibly sooner if you spend most of your time in a tropical or subtropical location (closer to the equator). ***The oxidative process is accelerated and more severe in darker-colored Boats and RVs compared to lighter colors,*** due to increased absorption of the sun’s UV radiation by the darker colors. Lighter colors reflect the sun’s rays. Removing the oxidation in darker colored areas may be more difficult, requiring more advanced techniques. Understanding this concept is critical to achieve a successful restoration.

Not only will the gelcoat fade and become dull, a chalky film forms on the surface, the decals fade, crack, and peel, but the gelcoat can look blotchy or spotty where the colors are not uniform and may have different shades. When oxidation occurs, the gelcoat becomes porous. The more severe the oxidation, the more porous the gelcoat. As a result, water can penetrate more deeply into the gelcoat and cause damage, including peeling of the gelcoat or delamination of the fiberglass layer requiring an expensive repair.

Signs of oxidation (not all of these features will be present in every unit):

- Chalky layer that comes off onto your fingers
- Fading and loss of gloss
- Fading and loss of color
- Cracked and/or peeling decals and graphics
- Blotchy gelcoat
- White spots (areas that are more intensely white)
- Faded rubber and cracked rubber gaskets
- Opacification: faded or foggy plastic components that are supposed to be clear
- Ghosting: unoxidized, unfaded areas after removing graphics or decals

In painted and FBP applications, oxidation will cause the shine to fade, paint damage, or peeling of the paint and clear coat. You may not see a chalky film on these surfaces, but the finish will become brittle and lose its luster.

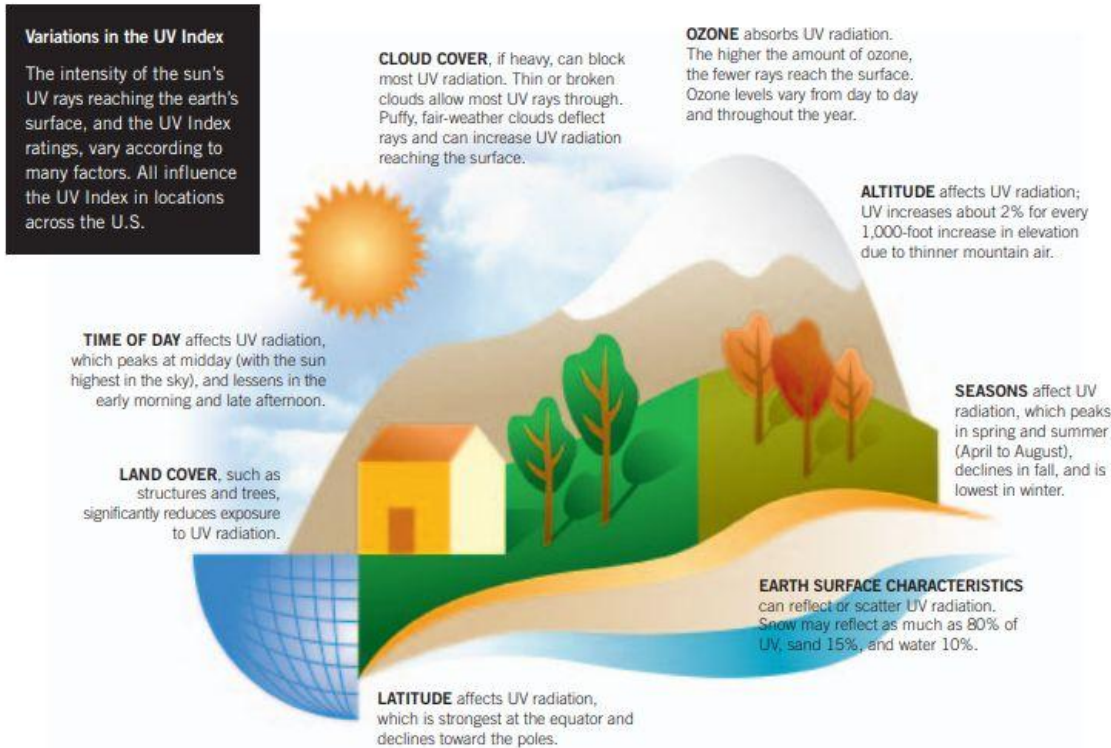
Color changes in the surface of your Boat or RV can also result from **Stains, Mold and Mildew**. When oxidized, dirt and debris from the roadways and waterways become embedded into the porous gelcoat and cause stains. Water shedding off your RV's roof or around the windows can cause black streaks. Mold and mildew can also grow and get trapped in the pores of oxidized gelcoat. These problems can be difficult to eradicate leaving your Boat or RV looking aged and discolored.

**Note about Oxidation (source EPA.gov):** As previously stated, oxidation occurs as a result of UV radiation, high temperature, and high humidity. Another important ingredient is time.

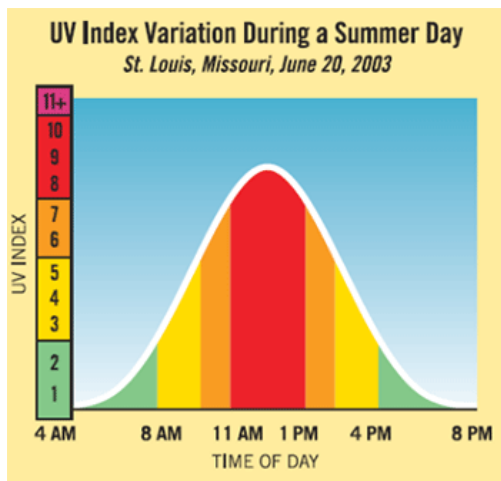
<b>UV Index</b>	<b>Exposure Level</b>
2 or less	Low
3 to 5	Moderate
6 to 8	High
8 to 10	Very High
11+	Extreme

UV radiation is the most significant factor causing oxidation. Protection against UV radiation is critical to prevent destruction of the polymer chains in the surface finish in order to keep a long lasting, high gloss shine, and to prevent damage to the gelcoat, paint, or clear coat. Poli Glow is formulated to adequately battle UV radiation and protect your prized possession.

The intensity of UV radiation is measured by a scale called the UV index that ranges from 0 (minimal to no UV radiation) to 11+ (extremely intense). The greater the number, the less time it takes to cause degradation and damage because the greater amount of UV radiation contacting the earth's surface. The factors that affect the UV index that are pertinent to this discussion include the cloud cover, season, latitude, and elevation (see figure 1). Consider also the time of day as there is an increase in the amount of UV radiation reaching the earth's surface at midday. The higher the exposure, the greater the oxidation, and the faster it sets in. Also, the level of UV radiation reaching the earth's surface has steadily increased over time, becoming more extreme.



**Cloud cover and time of day:** It is important to recognize that just as thick cloud cover can prevent UV radiation from reaching the earth's surface, moving your Boat or RV to a covered area, or using a breathable cover, will minimize UV radiation and oxidation.

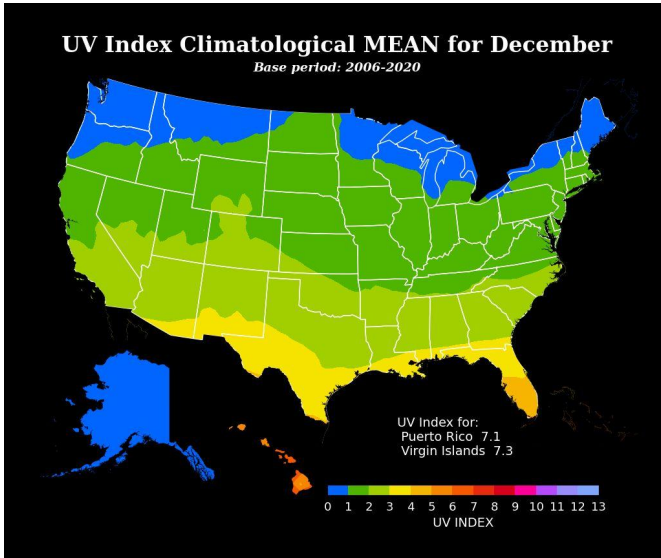


**Seasons:** UV radiation peaks in the summer months and declines in the winter. The tilt of the earth either puts that hemisphere in closer proximity to the sun with more direct sunlight (summer), or further away with less direct sunlight (winter). The maps below show the average UV index for December, showing a more moderate index, and July, reaching extreme conditions.

**Latitude:** Latitude is a coordinate that specifies the north-south position of a point on the surface of the earth. Latitude closer to the equator realizes a higher UV index, being closer to the sun and receiving more

direct sunlight. Again, review the maps of the mean UV index which reveal a significantly higher UV index in the southern states.

**Elevation:** Elevation, or altitude, affects the amount of UV radiation experienced by the earth's surface due to thinner air. For every 1000-ft elevation, there is at least a 2% (some sources say up to 8-9%) increase in the amount of UV radiation.



### What about temperature and humidity?

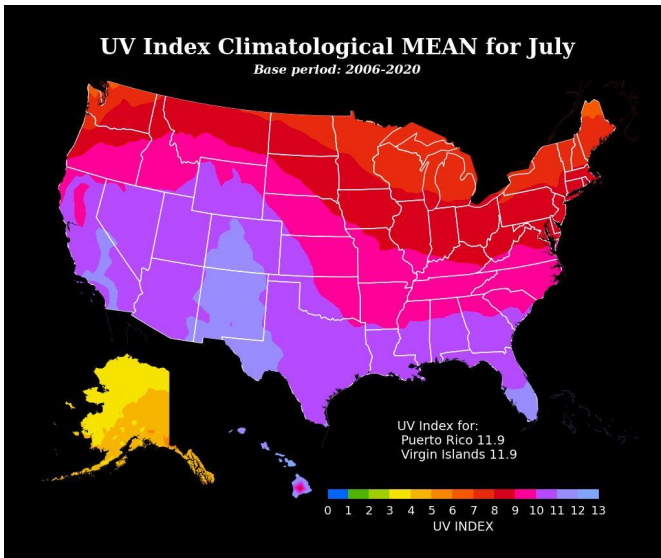
In extreme UV index areas, the temperatures and humidity are also generally extreme. This trifecta causes rapid deterioration. While some areas may have low humidity with high UV index and temperatures, the rate of degradation and oxidation seems to be similar.

### Why is time a factor?

The more time spent under exposure in a high UV index climate, the more rapid and severe the oxidation.

### Why is all of this important?

Any object left out under the sun is at risk of oxidation. Leaving a Boat or RV sitting out uncovered, in the summer, at elevation, in an area located closer to the equator (tropical location) will cause rapid degradation of the surface. The oxidation in an exposed, unsealed Boat or RV can be severe. Oxidation can be minimized and take more time to occur by providing coverage over your Boat or RV, especially during the day, and moving it to a location at a lower elevation, lower temperatures with less humidity, and with lower exposure levels to UV radiation.



## SEALING AND PROTECTING BOATS AND RVS

### Why should my Boat or RV be sealed and protected?

One important reason to seal and protect your Boat or RV is to minimize the process of oxidation to prevent deterioration and damage, which can result in high costs for repair and a time commitment to restore the surface. Moving your Boat or RV to a climate with less UV radiation with lower temperatures and humidity is not always practical. But a sealer

However, we also want our vehicles to look fresh and new with a high gloss shine. There is a sense of pride in ownership when pulling into the campground or dock. At Poli Glow® Products, we want your Boat or RV to *outshine* the rest!

Consider these reasons to keep your Boat or RV sealed and looking its best:

- Protects the surface and helps prevent damage and staining
- Prevents failure of the gelcoat and damage to the fiberglass requiring the help of a professional body shop (this is expensive!)
- Keeps out moisture
- Brings back the shine so that it looks brand new
- Makes it easier to clean
- Reduces maintenance costs
- May decrease your fuel costs by increasing the aerodynamics
- Pride of ownership

The sealer that you apply to protect your Boat or RV should be hydrophobic to keep out moisture and prevent stains, have UV-inhibiting properties to protect against UV radiation, have longevity to minimize the upkeep, should provide a high-gloss shine, and be inherently simple to maintain the finish. **Welcome to Poli Glow®!**

### **Does the oxidation need to be removed before applying a sealer?**

A successful restoration project is only possible if the oxidation is removed, the surface is cleaned properly, and an appropriate sealer is applied. If the oxidation is not removed appropriately, the surface will not look uniform, and the longevity of the sealer decreases leading to early deterioration and loss of the high gloss shine.

### **Is there anything I can do to prevent oxidation in my New Boat or RV?**

Prevention is the key in **New** Boats and RVs, but you can't completely stop the process. We want to prolong the shine and keep that brand-new look for as long as possible, and we have developed the products to help you. Please refer to our 'New Boat & RV' section under our website's 'Products' tab and the "**New Boat & RV Detailing Guide**" on the 'How To Use' tab as a guide to detailing your new Boat or RV.

***Note:** The products discussed below for older Boats and RVs are not intended for use on brand-new Boats and RVs where the finish still has a high gloss shine and is in good condition. In this case, use our **New Boat & RV Detailing Kit**.*

### **Why should I use Poli Glow® products to seal and protect my Boat or RV?**

We have spoken with thousands of customers about their experience and frustrations trying to keep their Boats and RVs looking new and glossy with traditional waxes and polishes. Poli Glow® is different. Traditional waxes and polishes sit on the surface of the gelcoat, easily oxidize, and quickly sheet off, lasting 3-4 months at best. These systems use compounding and buffing to prep the surface and apply the polish, which requires machinery and electricity. Using a buffer can be difficult and fatiguing to lift overhead for long periods of time to hit the high spots. Also, a buffer can not get into some of the tighter areas, which means removing parts such as ladders and awnings for a complete restoration. This adds time and more work. High speed buffers can also damage or strip the decals and graphics (revealing ghosting), or burn through the gelcoat prompting a visit to the professional body shop. Another problem is the inability to maintain the finish with traditional waxes and polishes by simply applying another coat. Owners are obligated to wait until oxidation sets in and then restart the process. Most either give up or are trapped in a perpetual cycle of compounding and buffing and applying a sealer multiple times per year making the ownership of your Boat or RV burdensome and laborious, and maintenance time-consuming.

<b>Problems with traditional waxes and polishes:</b>	<b>Benefits of Poli Glow® Products are:</b>
Applied with a buffers that adds cost	Poli Prep™ and Poli Ox™ remove oxidation without the use of buffers and compounds
Electricity is required	No need for electricity
Buffers are heavy and awkward with overhead use	No need to remove exterior parts to access tight spaces
Buffers can not access tight spaces	Poli Glow® is easy to apply
High-speed buffers can damage the gelcoat, paint, or decals	Poli Glow® provides a high gloss shine
Buffers require multiple pads to prep the surface as well as different strength compounds	Poli Glow® absorbs into and adheres to the gelcoat, so it is not a surface treatment
Buffers cause swirl marks which are difficult to remove and can still be evident after applying a sealer	Poli Glow® is a hydrophobic sealer that repels water
Are surface treatment that sheds quickly	Poli Glow® prevents staining and adherence of dirt and grime
Easily stripped when washing	Poli Glow® contains UV inhibitors to prevent oxidation
Do not contain UV inhibitors	Poli Glow® blends in without seams over previously applied coats
Can not reapply over the previous coat	Poli Glow® simplifies and facilitates general cleaning and is not stripped off by washing
May leave a seam when reapplying	Damages or imperfections in the Poli Glow® finish are simple to repair without stripping the whole unit
Damage or imperfections require stripping, buffing and compounding to the whole unit	Ongoing maintenance is simple so you never need your buffer again
Compounding and buffing and reapplication of a sealer needs to be done every 3 to 6 months to maintain a finish	Poli Glow® can last 5-6 years with proper maintenance
Laborious and burdensome process	The Poli Glow® Restoration Program allows you to spend more time doing what you love



Other products on the market are less affordable and include professionally applied products such as ceramics or full body paint (FBP). While there may be longevity with these coatings, the cost is prohibitive for some people.

Taking care of your Boat or RV should be easy and affordable. At Poli Glow® Products, we have made it possible to obtain a long-lasting shine, seal and protect your fiberglass without the high cost of FBP and other professionally applied coatings, minimize the amount of work required to care for and maintain the brand new look of your Boat or RV, apply the highest gloss shine on the market, all without having to buff and compound multiple times per year. Poli Glow is easy to apply, repairs in the finish are simple, and the high gloss shine will last 5-6 years if properly maintained. We have developed a system that will put you on an annual maintenance plan, and provide a process for removal and reapplication every 5-6 years so you will always have a healthy layer of protection, a high gloss shine, and *no oxidation*. We call this the **Poli Glow® Restoration Program**.

### THE POLI GLOW® RESTORATION PROGRAM

The Poli Glow® Restoration Program was designed to provide a high gloss shine on your Boat or RV and keep it looking brand new indefinitely. If the program is followed, there should be minimal to no oxidation, cleaning your vehicle will be easy, and the upkeep will be simple. Maintaining your Boat or RV annually is the key because you are refreshing the finish and applying more UV inhibitors to prevent further oxidation. *Don't wait until oxidation sets in*. Then, after 5-6 years, Poli Glow® should be removed and reapplied. Following the program is critical to a successful outcome and minimizing the work you need to do to keep your Boat or RV looking its best. Most of all, eliminating the need to break out your buffer! *This is the Power of Poli Glow®*.

The Poli Glow® Restoration Program contains 4 phases (see figure 1):

- Phase 1: the first-time application of Poli Glow® on an older, oxidized Boat or RV.
  - Step 1: Cleaning and Preparing: remove the oxidation and stains
  - Step 2: Sealing and Protecting: apply Poli Glow®
- Phase 2: Annually, simply wash and apply the maintenance coats of Poli Glow® to keep your Boat or RV looking brilliant and new, making any adjustments or repairs to the finish if necessary.
- Phase 3: At about 5-6 years, remove all of the Poli Glow® and reapply a fresh new layer.
- Phase 4: Repeat the annual maintenance and removal process to keep your Boat or RV looking new.

This guide will discuss Phase 1 in more detail below. Phase 2-4 are described in a separate guide called the “Poli Glow® and Poli Grit™ Maintenance and Removal Guide,” which you can find at the bottom of the page on our website’s ‘How to Use’ tab. Keep in mind that Poli Glow® was never meant to be a one-time application. If you apply Poli Glow® and do not follow the annual maintenance program, it will oxidize and look blotchy. This will require more work to get it looking glossy again, including removing the oxidation or possibly complete removal of Poli Glow® and reapplication before the 5-year mark. Avoid the hard work by being diligent about maintenance, decreasing your work effort, giving yourself more free time to pursue the activities you enjoy.

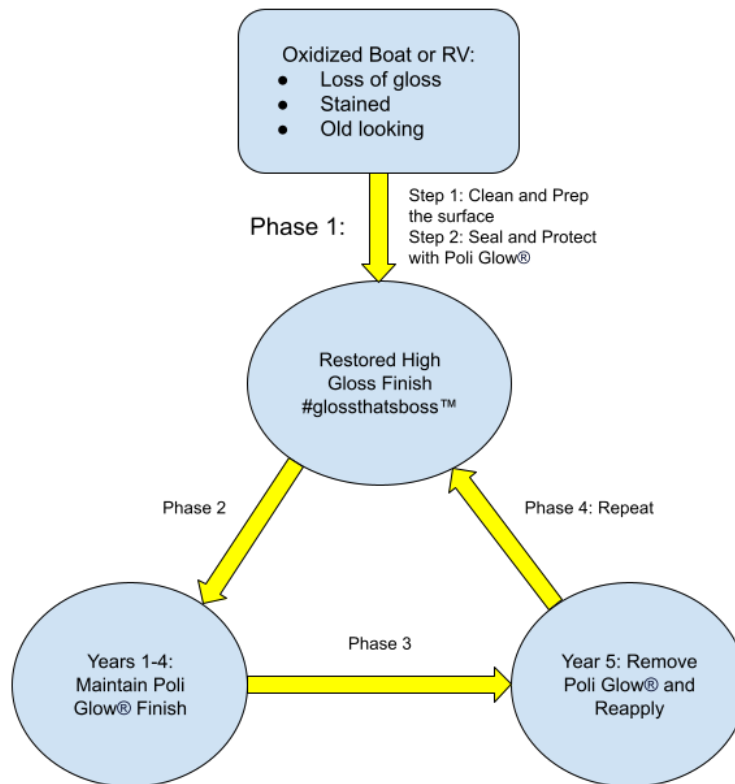


Figure 1. The Poli Glow® Restoration Program

## PHASE 1: RESTORING YOUR OLDER BOAT OR RV

The first-time application of Poli Glow® on an older oxidized Boat or RV requires a 2-step process. Step 1 involves cleaning and preparing the surface, and Step 2 involves sealing and protecting the surface. **Step 1 is the most important part in restoring the surface of your Boat or RV.** The oxidation and staining must be removed in order to allow Poli Glow®, the sealer, and protector, applied in Step 2, to adhere to the surface and provide that high gloss shine without imperfections. We want Step 1 to be as easy as possible without using multiple products or machines. The Poli Glow® line of products does just that, and you will be proud of your **Gloss That's Boss!** Step 2 is the fun part, where Poli Glow® is easily applied in thin, multiple coats. Poli Glow® is the product that provides the high gloss, stain-resistant, long-lasting shine that makes your older Boat or RV appear brand new. Poli Glow® will make the colors and decals come back to life and pop. If imperfections such as spotty oxidation, scratches, or stains are not removed, they will be enhanced by Poli Glow®.

**Note: Do not use** Poli Glow® on **New** Boats and RVs or if your older model's gelcoat, paint, or clear coat is in good condition (without oxidation) and has a shine. It is unnecessary to apply Poli Glow® to a surface that already looks good. Using our cleaning products in this situation can damage the outer layer by dulling the shine or causing scratches. Instead, use our New Boat & RV products to help protect the surface until it is oxidized enough to need Poli Glow®. One of the products in our New Boat & RV line is called **Poli Slick Seal™**, an easy-to-use

spray-on ceramic with UV inhibitors that provides 4-6 months of protection that can be applied to all surfaces.

### **What if only parts of my Boat or RV are oxidized?**

As new Boats and RVs age, the oxidation may be present on only parts, and not all of the surfaces. For example, the side wall of an RV may be partly glossy and partly faded. Poli Glow® can not be applied to just the faded parts. The whole side must be restored with Poli Glow® to prevent any seams or contrast. Likewise, if half of the port side of a Boat is oxidized, Poli Glow® must be applied to the whole side. At this point there may be a contrast between one side and the other and so we recommend applying Poli Glow® to the whole vehicle.

RVs are made up of many parts including the sidewalls, bumpouts, storage compartments with metal panels, and the cap. Sometimes the cap is oxidized while the rest of the RV is glossy. In this case, it would be acceptable to apply Poli Glow® to the cap only. If the metal panels over the storage compartments, which are typically painted and may have a clear coat layer, are in good condition, they can be covered with plastic and taped out. Parts that are not covered with Poli Glow® can be protected with Poli Slick Seal™.

### **What Poli Glow® products do I need in Phase 1?**

#### **Step 1: Cleaning and Preparing**

The products you will need include Poli Prep™, Poli Ox™, the White Non-Abrasive Scrub Pad with blue handle, and the Ultra-fine Sanding Pads. Again, this is the most important step. Do not disregard this step or cut corners; removing all of the oxidation will help maximize Poli Glow's® shine and longevity. Poli Glow® will enhance stains, old wax, or imperfections that are not removed.

**Poli Prep™:** Poli Prep™ is our unique, concentrated formula for removing mild to moderate oxidation and staining. Only Poli Prep™ can adequately prepare the surface for the application of Poli Glow®, and remove the chalky residue and stains. Do not use a rubbing or polishing compound, as these products can prevent Poli Glow® from adhering properly. Poli Prep™ will also remove previously applied waxes and polishes, which, if not removed, will cause a yellow discoloration in the finish and prevent Poli Glow® from adhering properly. For mild to moderate oxidation, use the White Non-abrasive Scrub Pad with blue handle to clean and prep the surface with Poli Prep™. Poli Prep™ can be used on oxidized gelcoat, oxidized clear coat (as in Class A and B RVs), rubber and plastic components, decals, glass, and metal surfaces. Poli Prep™ can be used over oxidized painted aluminum or painted plastic, but pretesting is necessary to prevent damage. A more diluted concentration may be necessary.

**Poli Ox™:** Poli Ox™ is our Power Scrubber to strip away moderate to severe oxidation and staining. It has abrasive qualities and oxalic acid to help remove dirt, grime, oils, rust stains, water spots, mold, and mildew. It is a universal product and an excellent cleaning agent. It can be used on every exterior surface, including oxidized gelcoat and clear coat, rubber and plastic components, decals, glass, and metal surfaces. Use either the White Non-Abrasive Scrub Pad or the Ultra-Fine Sanding Pad with Poli Ox™, depending on the severity of the oxidation. Poli Ox™ is also the best product to remove **hard water spots**, especially on glass. Poli Ox™ is an excellent choice to prep oxidized painted structures and plastic components.

**White Non-Abrasive Scrub Pad with blue handle:** This pad is a non-abrasive pad that is designed to remove oxidation, superficial dirt and grime, light staining, mold and mildew, and

small irregularities in the finish on your Boat or RV without causing any scratches to the gelcoat. The White Non-Abrasive Scrub Pad can be used on glass, rubber, plastic, oxidized gelcoat, clear coat, painted aluminum, painted plastic, and other metal surfaces. On painted surfaces, use gentle pressure. It is an all-inclusive pad for all of your cleaning needs. This pad can also be used to remove Poli Glow® during the removal phase of the maintenance program or in cases of accidental streaking, drips, or damage to the finish.

**Ultra-Fine Sanding Pad:** The Ultra-Fine Sanding Pad is more aggressive and abrasive than the White Non-Abrasive Scrub Pad. It is equivalent to 1200-grit wet/dry sandpaper. It can be used with the blue handle if needed. This pad is designed to remove heavy oxidation, deeper and heavier staining, and thicker, more prominent irregularities or scratches in the finish. It can also be used to remove Poli Glow® during the removal phase of the maintenance program or in cases of accidental streaking, drips, or damage to the finish. Do not use this pad over painted surfaces to avoid scratches.

## **Step 2: Sealing and Protecting**

Once your Boat or RV is rid of the oxidation and stains, applying Poli Glow®, our proprietary sealer and protector, will bring back that brand-new, high gloss, brilliant and powerful shine! All you need is Poli Glow® and an applicator. There are 2 types of applicators, our Poli-Mitt™ applicator and the original 7" Chamois applicator. We have found the Poli-Mitt™ applicator to be easier to use and more efficiently access tight corners and hard-to-reach areas. Some prefer the original applicator, so we leave it up to you. Both work very well to apply a streakless finish.

**Poli Glow®:** Poli Glow® is a unique, specially formulated product unlike any other product on the market today. It has been tested and used for over 25 years to restore the look of your boat or RV to its original brilliant shine! Poli Glow® not only provides the most ***Intense, Powerful, and Brilliant Shine*** on the market, it also penetrates and adheres to the surface, sealing the surface to repel water and prevent stains and damage. Poli Glow® contains powerful UV inhibitors to ward off oxidation and loss of that beautiful glossy appearance for up to a year. Poli Glow® is easy to apply and develops a more brilliant gloss with each subsequent coat.

**Poli-Mitt™ Applicator:** The Poli-Mitt™ applicator is an absorbent, plush, coral fleece microfiber mitt that provides the simplest method to apply Poli Glow® in order to obtain the brilliant, streak-free, **#glossthatboss™!** This applicator fits over your hand like a mitt. Access all the hard-to-reach and tight areas with this easy-to-use, effective applicator.

**7" Chamois Applicator:** The original 7" Chamois applicator is an absorbent, sponge-backed chamois that provides a simple method to apply Poli Glow®. The sponge-backed applicator provides a soft base to work around surface contours to optimize the application of Poli Glow®. This applicator can be attached to an extension pole for those out-of-reach areas. The chamois can be removed and used to access the hard-to-reach areas.

## **Will any of the Poli Glow® products damage the decals, painted structures or other areas on my Boat or RV?**

**New Boats & RVs:** Poli Glow®, Poli Prep™, Poli Ox™, the White Non-abrasive Scrub Pad, and the Ultra-Fine Sanding Pad are not meant to be used on New Boats or RVs. New Boats and RVs, whether they are gelcoat, painted aluminum, FBP with a clear coat, or contain plastic parts, have a high gloss finish. The shiny finish will fade and scratch especially after using Poli Prep™, Poli Ox™, the White Non-abrasive Scrub Pad, and the Ultra-Fine Sanding Pad. For new

Boats and RV, please refer to our “**New Boat & RV Kit**” on our website's product page, and the “**Poli Glow New Boat & RV Detailing Guide**” on our website’s ‘How-to -Use’ tab.

**Well maintained Older units:** Older units that have been well maintained or stored indoors or under cover, may also have a shiny finish. If the surface is in good condition without oxidation, please refer to our “**New Boat & RV Kit**” on our website's product page, and the “**Poli Glow New Boat & RV Detailing Guide**” on our website’s ‘How-to -Use’ tab.

**Painted surfaces and Clear Coat (FBP):** Some parts of your Boat or RV that are **NOT** part of the restoration project may contain paint (like metal rails) or clear coat (like the cab of a class C RV). Please tape out and cover these areas with plastic to protect them from drips or when rinsing Poli Prep™ or Poli Ox™ from the nearby surface being cleaned. Some paint can be removed or stripped by Poli Prep™, while some are resistant. If Poli Prep™ runs over the clear coat, it may dull the shine. Please always pretest on an inconspicuous area and avoid use if the color, texture, or paint is affected. The White Non-Abrasive Scrub Pad and the Ultra-Fine Sanding Pad will fade or scratch these surfaces if used on them. These products should also not be used on your automobiles (cars, trucks, SUVs, etc).

For oxidized clear coat that **IS** part of the restoration project, our products are safe to use. Best practices, however, warrant pretesting in an inconspicuous area to ensure no damage to the surface.

For oxidized painted components that are part of the surface that **IS** being restored, use caution in Step 1, cleaning and prepping. Please pretest Poli Prep™ and Poli Ox™ on an inconspicuous area and avoid use if the color, texture, or paint is affected. Poli Prep™ can always be used in a more diluted form (discussed below), or use Poli Ox™ with the White Non-Abrasive Scrub Pad using gentle pressure to prep the area. Poli Ox™ is an excellent choice to prep because it is less likely to cause damage and strip off paint or clear coat.

**Gelcoat:** None of the Poli Glow® products will harm oxidized, faded, and dull gelcoat. The products used in Step 1 will, however, dull and scratch the shine on new gelcoat.

**Plastic components:** Some RVs have plastic sidewall parts and a plastic cap. The cap can oxidize and stain quickly and easily because the area is exposed to the sun, rain, wind, and bugs. It is a prominent area with high visibility and leaves an impression when aged. Applying Poli Glow® to this cap will revive the vibrant colors and make it look brand-new. However, take caution in Step 1 when cleaning and prepping the area. If the plastic components on the RV are painted, use Poli Prep™ and Poli Ox™ with caution and pretest in an inconspicuous area as discussed above.

In plastic parts where the color is impregnated into the material, there should be no concerns with using Poli Prep™ or Poli Ox™, but it is recommended to pretest for complete safety. Poli Prep™ and Poli Ox™ work especially well on plastic components that have become foggy or cloudy from oxidation. This includes headlights and other light covers. Once clear, apply Poli Glow® to restore and protect these structures.

**Metal:** None of the Poli Glow® products will harm unpainted, bare metal. Do not apply Poli Glow® to bare metal. It will not adhere. Poli Ox™ however, can be used to brighten metal components.

**Glass:** None of the Poli Glow® products will harm glass. Do not apply Poli Glow® to glass. During application, the Poli-Mitt™ applicator may touch the glass and apply Poli Glow®. Wipe it off with a towel. If it dries, spray some diluted Poli Prep™ onto a towel and wipe the glass. Hard water spots on glass can be easily removed with Poli Ox™.

**Bottom Paint:** Poli Prep™ may streak or damage bottom paint on Boats. If your Boat already has bottom paint, protect the bottom paint to prevent damage when prepping with Poli Prep™ above the water line (where you plan on applying Poli Glow®). If the plan is to apply bottom paint during the restoration project, it is best to first perform the steps to apply Poli Glow® in the areas where bottom paint will not be applied (above the water line). Then apply bottom paint in the area below the waterline. It is not recommended to apply bottom paint over Poli Glow®, so please do not apply Poli Glow® to the area designated for bottom paint.

**Vinyl Graphics and Decals:** Poli Prep™, Poli Ox™, and Poli Glow® will not harm vinyl graphics or decals. Graphics will also oxidize and present with color change and cracking over time. Poli Prep™ and Poli Ox™ can remove the oxidation and often return the original color. After applying Poli Glow®, the graphics will be protected from oxidation and cracking. Graphics should be applied to the fiberglass before applying Poli Glow® and after cleaning and preparing the surface with Poli Prep™ and Poli Ox™. **Do not apply graphics over Poli Glow®.**

**Rubber Components:** None of the Poli Glow® products will harm rubber components like gaskets around windows and doors or bumper rails. Poli Prep and Poli Ox work very well to remove oxidation on rubber. Poli Glow® adheres well to rubber and is an excellent sealer to protect against oxidation and cracking.

### **I have non-skid areas on my Boat. Which product works best for these areas?**

The non-skid areas of your Boat, including the gunwale, stair treads, stern, and decking, will also oxidize and become heavily stained. Even some of the texture may fade with time. These are generally high-traffic areas and are stained with rubber marks, fish debris, rust stains, etc. Applying a sealer is extremely important to prevent oxidation and allow easy cleanup. However, Poli Glow® is slippery when wet. We have developed a product called Poli Grit™ not only to seal and protect the surface and provide the same brilliant **#glossthatboss™**, but also to apply a texture to the non-skid areas. For more information, please visit the product page on our website, or refer to the **“Poli Grit™ Guide to Non-Skid Areas”** under our website’s ‘How to Use’ tab.

### **Are these products available in kits?**

Yes, you can bundle and save. We have formed kits to aid with the different needs of our customers. Most customers have moderate oxidation. If there are no significant stains, color changes, or imperfections on the surface, then our Poli Glow® Kit is the appropriate solution. However, if there are some stains, color changes, and more severe oxidation, the Poli Glow® Deluxe Kit is more appropriate. The Deluxe Kit comes with all the necessary supplies to remove oxidation, stains, and imperfections, providing the tools needed to obtain a more uniform surface appearance before applying Poli Glow®. If you are unsure, the Deluxe kit affords you the most savings. For more information on the guides referenced below, please refer to our website’s ‘How to Use’ tab.

**Poli Glow® Kit:** Indicated for mild to moderate oxidation. This kit comes with Poli Glow®, Poli Prep™, the White Non-Abrasive Scrub Pad with blue handle, and the Poli-Mitt™ applicator.

**Poli Glow® Deluxe Kit:** Used for moderate to severe oxidation. This kit comes with Poli Glow®, Poli Prep™, Poli Ox™, the White Non-Abrasive Scrub Pad with blue handle, two Ultra-Fine Sanding Pads, and the Poli-Mitt™ applicator.

**Poli Glow® with Mitt Kit:** Needed for the maintenance application of Poli Glow® or if you have a Boat or RV larger than 28 feet and extra product is needed. This kit comes with Poli Glow® and the Poli-Mitt™ applicator. Please refer to the “Poli Glow® and Poli Grit™ Maintenance and Removal Guide” for more instructions on maintenance.

**Poli Ox™ Kit:** Needed for the maintenance application of Poli Glow® or if you have a Boat or RV larger than 28 feet and extra product is needed. This kit includes Poli Ox™, the White Non-Abrasive Scrub Pad with blue handle, and two Ultra-Fine Sanding Pads. Please refer to the ‘Poli Glow® and Poli Grit™ Maintenance and Removal Guide’ for more instructions on maintenance.

**Poli Grit™ Kit:** Used on the non-skid areas on Boats. This kit comes with Poli Grit™ Bottle A, Poli Grit™ Bottle B, 1 pan, 1 roller handle, and 2 nap roller covers. Please refer to the ‘Poli Grit™ Guide to Non-Skid Areas’ for more instructions.

### **How big of a Boat or RV can I cover with these products?**

In general, the Poli Glow® Deluxe Kit should restore up to a 28 foot Boat or RV with mild to moderate oxidation, with the vehicle spending most of its time in more temperate climates (IECC climate zones 5-6 - see “**Poli Glow® Coating Chart**”). Coverage depends on the square footage, bump outs, the conditions of your gelcoat, and the weather conditions where you live. If you have a heavily oxidized gelcoat, you will need more product to fully restore your unit because the gelcoat will be more porous and soak up more of the Poli Glow®. If you live in more tropical and subtropical climates (IECC climate zones 1-4), we recommend applying more coats for added protection. As a result, more product will be necessary.

### **Can Poli Glow® products be used on a car or truck?**

Poli Glow® restoration products are specifically designed to be used on Boats and RVs. They are not appropriate for the clear coat over cars or trucks. We do carry detailing products that can be used on cars and trucks that can be found under our website’s ‘Products’ tab.

## **DIRECTIONS FOR USE**

Restoring a high-gloss, brand-new appearance to your older Boat or RV is a two-step process. The first and **most important step** is to clean and prepare the surface properly. If all of the oxidation and stains are removed, the application of Poli Glow® will be trouble-free and enjoyable, and the transformation to the high-gloss, brand-new appearance of your Boat or RV will be inspirational.

### **Step 1: Cleaning And Preparing the Surface**

Step 1 involves scrubbing the surface until the white layer of oxidation has been removed and the surface is uniform with no color variations (it will still be faded and dull and the decals will

still be cracked). Any color variations, spotting, or mottling that is not removed may be enhanced after Poli Glow® is applied. If you have any concerns about whether all of the oxidation has been removed, look for these features:

- Disappearance of the chalky layer
- Disappearance of blotchy areas and white spots (uniform dull appearance)
- Colors are more prominent but still faded
- Water sheets off the surface differently than before Step 1, cleaning and prepping
- Rubber gaskets have returned to their original black color
- Plastic components are clear and not foggy

**Note:** The directions below apply mainly to gelcoat and clear coat (FBP) applications. In painted aluminum and painted plastic, use a more diluted form of Poli Prep™. Start with a 6:1 water to Poli Prep™ mixture. More Poli Prep™ can be added to strengthen the solution if necessary. Always pretest in an inconspicuous area. Do not use if the paint is affected. The other option is to use Poli Ox™ with the White Non-Abrasive Scrub Pad to clean and prep the surface. Avoid using the Ultra-Fine Sanding Pad over paint to prevent scratching.

**Directions for using Poli Prep™: for mild to moderate oxidation and staining**

1. Put on disposable gloves to protect your hands.
2. In a trigger spray bottle, dilute Poli Prep™ concentrate 3:1 water to product (three parts water and one part Poli Prep™). Poli Prep™ is a concentrated cleaner, so you don't need to use it at full strength unless there are areas of oxidation and staining that did not come off.
3. Wet the affected area with water, then spray Poli Prep™ onto the surface and scrub the oxidized area with the White Non-Abrasive Scrub Pad and blue handle to remove the oxidation. Rinse with water and assess the surface.
4. A soft-bristled auto brush on an extension pole can be used for the hard to reach areas.
5. Repeat the process until all of the oxidation is removed and the surface looks uniform in color. It will still look dull at this point.
6. Work in sections of about four to six feet in length. Move on to the next section once all oxidation and stains are removed. Once Poli Glow® is applied, it will seal in any stains left on the surface if they are not removed.
7. Let your Boat or RV dry for one hour after cleaning and before applying Poli Glow®. Drying times may be longer in cooler and more humid conditions.

**Directions for using Poli Ox™: for moderate to heavy oxidation, staining and mold and mildew removal**

1. This step is performed using either the White Non-Abrasive Scrub Pad with blue handle or the Ultra-Fine Sanding Pad provided in the kit. For heavier stains and oxidation, use the Ultra-Fine Sanding Pad.
2. Put on disposable gloves to protect your hands.
2. Moisten the scrub pad with water and sprinkle Poli Ox™ onto the pad. Gently rub Poli Ox™ into the pad to prevent it from falling off.
3. Wet the affected area and scrub with Poli Ox™. Rinse with water and assess the surface. Repeat until the stain or oxidation is removed and the surface looks uniform.



### **How can I remove any stains that did not come out with Poli Prep™ and Poli Ox™?**

For persistent stains, we have developed a product called **Poli Wash Pro™**. This product can be diluted 10 parts water to 1 part product (or stronger if needed) and sprayed onto the stain, scrubbed with the White Non-Abrasive Scrub Pad or Ultra-Fine Sanding Pad, and rinsed off. Never use full strength on gelcoat, clear coat, or paint. Poli Wash Pro™ will strip any waxes or spray on ceramics and remove dirt and grime. It was mainly developed to be an additive to our high-foaming Poli Glow® safe wash called Poli Wash™. You can also add 1 ounce to the trigger spray bottle containing the Poli Prep™ mixture. Refer to the product page on our website for more details.

### **I can't seem to get all the oxidation and staining off. What can I do next?**

If you have a lighter-colored Boat or RV, especially white, the oxidation is usually mild to moderate and not as difficult to remove. Persistent oxidation and staining is usually a problem in **darker-colored vehicles or older units**, especially those that have never been sealed. The colors can be bleached out. The amount of oxidation is often underestimated and is only obvious after Poli Glow® is applied (more about what to look for and how to correct this later). If you used Poli Prep™ and Poli Ox™ (and tried Poli Wash Pro™ for the stains) and the colors are still a little bleached out, or there are persistent white spots, and the surface does not look uniform, you may need to **wet sand** the surface (see below).

If a problem persists after wet sanding, the help of a professional detailer or body shop may be needed. In more tropical climates (high temperatures, humidity, and UV index), the gelcoat, clear coat, and paint may fail and be permanently damaged. Sometimes the use of heavy compounds and a buffer may be necessary to remove heavier layers of failed gelcoat, or deeper scratches in the gelcoat. The problem, in this case, is the risk of burning through the gelcoat with the buffer or stripping the decals. If the decals are stripped off in an older Boat or RV, **ghosting** (see below) may be evident. If the buffer burns through the gelcoat down to the fiberglass, the repair may require a professional body shop. This is what you want to avoid. If the gelcoat has totally failed from long-standing oxidation, it may need to be replaced by a professional.

### **What is ghosting?**

Removing decals and graphics may reveal a color difference in the gelcoat, clear coat or paint between the area that was covered by the decals or graphics and the surrounding area. This is ghosting. The area deep to the decals were protected from UV radiation and therefore minimally oxidized. This is a difficult problem to eradicate if the deeper layers of the gelcoat are affected. Removing the superficial damaged gelcoat layer during Step 1 may not completely clear the ghosting. **Wet sanding** (see below) may be necessary to remove more of the gelcoat to even out the coloring, but if the deeper layers have lost pigment, ghosting may always be visible in the correct lighting. The most practical approach is to replace the same decals or graphics in the same location to cover the ghosting.

### **What is wet sanding?**

Wet sanding uses sandpaper and water to remove the outer damaged layer of gelcoat or clear coat. It is not recommended over paint. It can be done by hand or with machinery. Sandpaper is rated by the grit number. The higher the grit number, the finer the sandpaper and smoother the finish. The material removal rate is slower but you have more control. The lower the grit number, the coarser the sandpaper, but the faster the material removal rate.

Recommendations on wet sanding:

- Use a sheet (vibrating) sander. There is no concern for swirl marks, which come from rotating sanders and are hard to remove.
- Use water only. No need for compounds. The abrasive is in the sandpaper.
- Start with super fine sandpaper, 1000 or 1200 grit, to prevent any issues. You can always move to a more aggressive, lower grit sandpaper.
- Be gentle over the decals and use a finer grit sandpaper over them. The decals oxidize also, and the colors can fade. Removing the oxidation allows the colors to be enhanced after applying Poli Glow®.
- Remove only the damaged layer so the surface looks uniform and blotches have disappeared.
- Ghosting may require more aggressive sanding. Take caution not to remove excessive amounts of gelcoat. Remember that the gelcoat is approximately 4-5 mm on Boats, and 1-3 mm on RVs. Being too aggressive with the sander or a heavy grit sandpaper can strip the gelcoat down to the fiberglass, which must be avoided.

Instructions for wet sanding:

1. Wet the surface with water. Start with 1000 or 1200-grit sandpaper. You may need to use a heavier grit sandpaper such as 600 or 800-grit sandpaper and finish with the 1000 or 1200 grit. Do not press firmly, and avoid heavier grit sandpaper when using the sheet sander over the decals to avoid damage. If the decals are in good condition, avoid sanding them or only lightly sand them.
2. Rinse with water or wash down with Poli Prep™ as needed.
3. Repeat as necessary until a uniform finish is achieved.

### **How long can I wait after Step 1 to apply Poli Glow®?**

After cleaning and preparing the surface, it is recommended to apply Poli Glow® as soon as you can. It does not have to be on the same day. However, oxidation continues to occur, especially if your vehicle is parked outside without cover and is subject to the elements. Also, if it is windy or rainy, you may need to rewash it before applying Poli Glow®. If your vehicle is garage kept, you can wait several weeks before applying Poli Glow®. Remember to inspect your unit and address any problematic areas before Poli Glow® is applied.

### **Step 2: Sealing and Protecting the Surface**

Applying Poli Glow® is straightforward and easy. Poli Glow® is meant to go on in multiple thin layers. Each layer will blend in with the previously applied layer and any surrounding Poli Glow® that was applied in a previous section without leaving any seams. Poli Glow® is very user-friendly.

### **What is the technique for applying Poli Glow®?**

Shake the Poli Glow® bottle well before use. Never treat Poli Glow® like a wax. Instead, apply it as you would a varnish. Apply Poli Glow® in one direction, either vertically (top to bottom), or horizontally (side to side). Avoid passing over the same area more than once to prevent streaks from forming while Poli Glow® is drying. Poli Glow® should be applied to the surface gently. Do not push down forcefully on the Poli-Mitt™ applicator during application. This may cause foaming, bubbles, streaks, or drips, which could result in an irregular surface. Do not suddenly stop using the Poli-Mitt™ applicator while applying Poli Glow® as this can cause irregularities in the finish. Instead, pull it away gradually. If drips occur, remove them with the applicator before

they dry. If the Poli-Mitt™ becomes saturated with liquid, wring it out to remove the excess Poli Glow® to avoid streaks.

### **How is the Poli-Mitt™ applicator or 7” Chamois applicator prepared for use?**

Poli Glow® should not be applied to a dry applicator. Dampen either applicator with fresh water, and wring out any excess. If it is still too wet, wrap it in a towel and wring it out again. The applicator should be damp, never wet or dripping.

### **What are the best temperatures and conditions to apply Poli Glow®?**

While Step 1, cleaning and prepping, is the most important step in the Poli Glow® program, another essential aspect of applying Poli Glow® is considering the conditions. The conditions play a role in whether or not you have a successful outcome for your project. Please check the forecast before beginning the project. If imperfections occur, Poli Glow® will need to be removed in that area and reapplied.

- Wind: Avoid applying Poli Glow® in windy conditions to prevent debris from blowing onto the surface and embedding into the finish.
- Rain: Do not apply Poli Glow® in the rain. This will cause streaks and water spots.
- Temperature: Apply Poli Glow® between 60 and 95 degrees Fahrenheit. If it is too hot, Poli Glow® will dry too fast on the surface and look streaky no matter how many coats are applied. If it is too cold, Poli Glow® may not adhere to the surface properly, flake off or crack, or develop a hazy or cloudy appearance in the finish.
- Humidity: Humidity plays a role in drying times as well. High humidity results in slower drying times, and low humidity results in faster drying times.
- Direct Sunlight and Shade: Direct sunlight onto the surface of your unit will increase the surface temperature and may be hotter than the air temperature. Likewise, working in the shade on a cooler day may cause the surface temperature of the unit to be cooler than the air temperature. If the air temperature is 90 degrees, in direct sunlight, the surface temperature can be closer to 100 degrees, in which case, Poli Glow® should not be applied. This is particularly true in darker-colored vehicles where more of the sun's rays are absorbed. Similarly, if it is 65 degrees, the surface temperature may be less than 60 degrees if working in the shade. If you live in an area where the temperatures are extreme, you may want to purchase an infrared thermometer to check the surface temperature before applying Poli Glow®.

In high heat or high UV index conditions, consider working in the mornings or early evenings. In colder climates, midday conditions may be more appropriate. Taking the project indoors removes the effects of wind, rain, and direct sunlight, but temperature and humidity still apply.

### **How long does Poli Glow® take to dry?**

An appropriate drying time is between 30 seconds to 2 minutes per coat. Please keep in mind that higher temperatures, lower humidity, direct sunlight (especially on darker colored areas) cause Poli Glow® to dry faster. Lower temperatures, higher humidity, shade, and lighter colored areas allow Poli Glow® to dry slower. If you are seeing drying times less than 30 seconds, Poli Glow® may be drying too fast, and streaks may develop. If greater than 2 minutes, it may be too cold out, and Poli Glow® will not adhere and can peel off or look cloudy when dry. If the next coat of Poli Glow® is applied before the previous coat is completely dry, streaks, brush marks, and/or bubbles can occur in the finish. Do not apply another coat until the previous coat feels dry and is not tacky.

### **How many coats of Poli Glow® should I apply?**

The number of coats you need to apply can vary. We have developed the “Poli Glow® Coating Chart” (available at the bottom of our website’s ‘How To Use’ page) to help you understand the minimum number of coats. The variables that determine how many coats you should apply include temperature, humidity, UV index, elevation, and the condition of the gelcoat. The oxidation is more severe and occurs more quickly in conditions where the temperature, humidity, UV index, elevation, and the summer season remain high for longer periods of time. These conditions occur in a tropical or subtropical climate (closer to the equator) and therefore, more coats of Poli Glow® is recommended, even 12 coats or more. Applying more coats adds more UV inhibitors to the surface and more protection against oxidation. In the US for example, if you live in a more southern state like Florida, Mississippi, Texas, you will need to apply 10-12 coats, and only 6-8 coats if you live in a more northern state such as Maine or North Dakota.

Consider that the first two or three coats of Poli Glow® may appear dull or streaky. Remember, Poli Glow® must be applied in thin layers, and as the layers build on each other, the streaks fill in, and the finish becomes more uniform with a **Gloss That’s Boss!** Sometimes 4-6 coats are not enough to obtain a more uniform appearance. While not as important in painted applications, the condition of the gelcoat and clear coat plays a role here. A more highly oxidized unit will soak up more Poli Glow® necessitating more coats to achieve a uniform glossy finish.

***Note:** Applying the recommended coats protects the fiberglass, yields a higher gloss, prevents early deterioration of Poli Glow®, and will not void your warranty.*

**Now it's time to apply Poli Glow®.** This is the easy part. Have fun as you restore the shine and high gloss appearance!!

1. After Step 1, allow the vehicle to dry.
2. Install vinyl graphics or decals before applying Poli Glow®.
3. Put on disposable gloves to protect your hands.
4. Dampen the Poli-Mitt™ applicator with water and wring out the excess.
5. Shake the Poli Glow® bottle well before use. Drizzle several lines of Poli Glow® onto the palm of the applicator. It should be moist, not dripping wet. Wring the Poli-Mitt™ applicator to distribute the product throughout the mitt for an even application, and to remove any excess Poli Glow®.
6. Apply Poli Glow® by wiping it on in one direction, top to bottom or side to side. Do not use circular motions.
7. Apply to a four-by-six-foot area. When the first coat is dry, then apply the next coat. Apply all recommended coats to each area before moving on to the next section. Each coat dries in approximately one to two minutes, depending on the temperature and humidity. Do not apply another coat until the previous coat feels dry and is not tacky. When Poli Glow® is applied to the next section, it will blend in with the previous section without leaving a seam.
8. If you start to feel resistance as you apply Poli Glow® with the Poli-Mitt™ applicator, there are 2 causes. Either there is not enough Poli Glow® on the mitt, in which case simply apply more Poli Glow® to the mitt and continue working, or it is too hot and Poli Glow® is drying as soon as it hits the surface. Stop working and come back on a cooler day.

9. The section is finished when the surface has a uniform glossy appearance without streaks or imperfections and you have applied the recommended number of coats according to the Poli Glow® Coating Chart.
10. If you pause the project for a few hours, prevent Poli Glow® from drying on the Poli-Mitt™ applicator by rinse the mitt well with water and place it in a resealable plastic bag.

**What do I do if dirt or debris gets onto the Poli-Mitt™ applicator or 7” Chamois applicator, or if there is excess or hardened Poli Glow® on the applicator?**

If not removed, dirt and debris can become embedded in the finish. Dirt and debris, excess or hardened Poli Glow® on the applicator can cause streaks, drips and other imperfections. Wash or rinse out the applicator with water, wring it out, and wrap it in a towel to remove any excess water. Hardened Poli Glow® can be removed by spraying diluted Poli Strip™ or Poli Prep™ onto the applicator to loosen it up and rinse well with water before reapplying Poli Glow®.

Alternatively, the applicator can be cleaned by soaking it in a pail filled with 3 gallons of water and 1 ounce of Poli Strip™ or 2 ounces of Poli Prep™. Once the dirt or dried Poli Glow® has been removed, rinse it out well with water before applying Poli Glow® to the mitt.

**How do I get Poli Glow® off of glass?**

If Poli Glow® inadvertently gets onto glass during the application process, just wipe the area with a wet cloth. If Poli Glow® has dried, spray some Poli Prep™ onto an old rag and wipe the glass clean.

**Does Poli Glow® need to cure?**

Yes, Poli Glow® needs 24-48 hours to cure. The finish will harden and form a shell. It is best to avoid contact with rain or water for this time after application. Do not put your Boat into the water or take your RV for a drive. If there is a gentle rain, water spots can occur in the finish. They can disappear after a few hours in the sunlight. Heavier rains may cause streaking which will not disappear and may require repair (see below).

## **TROUBLESHOOTING POLI GLOW® APPLICATION PROBLEMS**

There are straightforward reasons why the finish can be unsatisfactory during or after application of Poli Glow®. The problems that typically occur are streaks, white blotches, cloudiness in the finish, peeling off or cracking of the Poli Glow®, water spots, or bubbles. We call these ***imperfections*** or ***blemishes***. In rare instances, a yellow discoloration can occur.

One avoidable cause of imperfections is an expired bottle of Poli Glow®. Check the expiration date on the bottle and discard if expired. Poli Glow® should not be used if older than 2 years from manufacturing. Another avoidable cause of blemishes is applying Poli Glow® during inappropriate weather conditions. The most important avoidable cause of imperfections is failure of Step 1, cleaning and preparing the surface.

**Streaks:** Streaks are the most common problem that both do-it-yourselfers and detailers have. Streaks most commonly occur from **not enough coats** being applied. Customers sometimes call about streaks only to find out only one coat has been applied. Remember that in gelcoat, the first few coats will soak into the pores and it may take 4-6 coats just to build up enough

layers to get coverage. Even in painted aluminum and FBP, Poli Glow® can look streaky until the layers build up enough to provide total coverage. Some gelcoats that are heavily oxidized are very porous and can take 12 coats or more until the streaks disappear.

Another important cause of streaks is **persistent oxidation**, which is more of a problem in gelcoat applications. Sometimes, it can be difficult to tell if all the oxidation has been removed. Step 1, cleaning and preparing the surface, is the most important step to restoring your Boat or RV. If you are unsure, it will not hurt the gelcoat to repeat scrubbing with Poli Prep™ or Poli Ox™.

Preventing streaks also requires applying Poli Glow® under the appropriate **weather conditions**. Remember, the wind, rain, and temperatures outside of 60 to 95 degrees affect the application of Poli Glow®. Drying times need to be considered. The **Poli-Mitt™ applicator or 7” Chamois applicator** can also play a role in forming streaks if there is too much Poli Glow®, dirt and debris, or dried Poli Glow® along the edge of the applicator.

**White blotches, spots, or brush marks:** After some or all of the coats of Poli Glow® are applied, you may see some white spots or marks in some locations deep to the Poli Glow® shell. These spots appear because not all the oxidation has been removed. The surface may even look uniform after Step 1, and it may be difficult to tell, but after Poli Glow® is applied, white spots will be visible. White spots are not so much a problem in painted aluminum surfaces and are more common in gelcoat applications if all of the oxidation is not removed.

**Haziness or Cloudiness in the finish:** Unlike the white spots that occur deep in the Poli Glow® finish, this cloudiness is a grayish or whitish discoloration of the actual Poli Glow®. This can occur if the temperature was less than 60 degrees (too cold) during application of Poli Glow®.

**Peeling or cracking of the finish:** You will notice this problem within a few days to a week after Poli Glow® has been applied. Low temperatures (less than 60 degrees), persistent oxidation and previously applied waxes and polishes can prevent Poli Glow® from adhering, allowing the product to peel off or crack. Sometimes it can be difficult to tell whether all of the oxidation is removed, so it is important to perform the prep work diligently. Persistent oxidation usually occurs in areas most exposed to the sun. If Poli Glow® is peeling or cracking months after application, the cause is usually persistent oxidation, old Poli Glow®, or insufficient number of coats, and typically occurs in tropical or subtropical locations.

If Poli Glow® starts to peel after many months, it is usually the result of oxidation. Not enough coats were applied during the restoration process.

**Water spots or water streaks:** Water spots occur from rain during the curing period, within 48 hours. The rain can be unpredictable, but please always check the forecast before applying Poli Glow®. If a light rain occurs, there may be water spots that disappear when the surface is exposed to sunlight. However, a heavier rain can cause vertical streaks that do not resolve with sunlight.

**Bubbles:** Bubbles are an uncommon problem resulting from the application process. Bubbles can form in the finish if the next coat of Poli Glow® is applied before the previous coat is

completely dry. This occurs when gas becomes trapped in between layers of Poli Glow® as liquid materials in the previous coat evaporate.

**Yellow discoloration:** This is an uncommon problem and the result of incompletely removing previously applied waxes and polishes. Again, the cleaning and prepping in Step 1 are critical to an excellent outcome. Yellowing can also occur from oxidation of the gelcoat or clear coat if not enough coats of Poli Glow® are applied.

**Troubleshooting Poli Glow®:**

<b>Problem</b>	<b>Cause</b>	<b>How to avoid the problem and repair*</b>
Any imperfection	Expired bottle of Poli Glow®	Discard and purchase new Poli Glow®
Streaking	First coat	Add more Poli Glow®
	Not enough coats	Add more Poli Glow®
	Conditions (too hot or cold, wind, rain)	Apply Poli Glow® under the appropriate conditions
	Too much Poli Glow® on Poli-Mitt™ applicator	Wash out the mitt, wring out, and reapply
	Did not remove all the oxidation	Repeat and perform Step 1 appropriately
	Dirt and debris on Poli-Mitt™ applicator	Wash out the mitt, wring out, and reapply
	Dried Poli Glow® on Poli-Mitt™ applicator	Wash out the mitt, wring out, and reapply
	Rained shortly after Poli Glow® applied and before cured	Allow 24-48 hours to cure and check the weather conditions
White blotches	Oxidation remains in those spots	Spot remove Poli Glow® in those areas and scrub the gelcoat to remove oxidation. Reapply Poli Glow®.
Cloudy finish	Conditions (too cold)	Apply Poli Glow® between 60-95 degrees fahrenheit.
Peeling or cracking	Conditions (too cold)	Apply Poli Glow® between 60-95 degrees fahrenheit.
	Did not remove all the oxidation	Repeat and perform Step 1 appropriately
Water spots	Rain within the curing period	Allow 24-48 hours to cure and check the weather conditions
Bubbles	Poli Glow® applied before previous coat dries	Allow each layer to dry for up to 2 minutes
Yellow discoloration	Old waxes and polishes not removed	Repeat and perform Step 1 appropriately
* The repair may require removing Poli Glow® before reapplying		

**REPAIRING IMPERFECTIONS**

Repairs involve removing Poli Glow® directly over the imperfection, not necessarily the whole unit. It depends on how much of the finish is involved. Spot removal and reapplication can be performed rather than stripping the whole unit. Also, not all of the layers of Poli Glow® may need to be removed to repair the imperfection, only as much as is necessary to eradicate the blemish. Then simply reapply Poli Glow®. Poli Glow® will blend in with the surrounding areas and leave no seams.

**Note:** One of the **greatest benefits** of using Poli Glow® is that repairs of imperfections can be easily accomplished by removing several layers and reapplying. *Poli Glow® goes on in layers and can be removed in layers.* Likewise, all of the layers can be removed if needed. When reapplied, Poli Glow® blends in with the surrounding area without seams. *It is the most user-friendly sealer on the market.* This is the **Power of Poli Glow®.**

All of the layers of Poli Glow® may need to be removed if the problem is due to persistent oxidation, which is on the surface of the unit, deep to the Poli Glow® shell. The surface must be scrubbed to remove the oxidation (repeating Step 1). If the imperfection involves only a section or small area, removing Poli Glow® from the whole vehicle is unnecessary. Perform a spot removal with Poli Strip™ or Poli Ox™ and reapply Poli Glow®.

**Note:** If Poli Glow® needs to be removed from the entire Boat or RV, please review our removal technique in the “Poli Glow® Maintenance and Removal Guide.”

Before addressing the blemish on the surface of the Boat or RV, perform these actions:

- Expired Poli Glow®: discard the bottle and purchase a new one.
- Weather conditions: apply Poli Glow® under the appropriate weather conditions to avoid streaks, a hazy or cloudy finish, peeling or cracking of the finish, water spots, and bubble formation.
- Number of coats: please refer to the “Poli Glow® Coating Chart” to ensure that you are applying the correct number of coats, and if you have a heavily oxidized vehicle, you may need more coats for coverage.
- Poli-Mitt™ applicator or 7” Chamois applicator: wash it out as discussed previously to remove the dirt and debris or excess or hardened Poli Glow®.
- Failure of Step 1: most of all, remember to perform Step 1 diligently. Don’t cut corners or skip steps. Putting the time in upfront will save you time down the road.

Spot removal of Poli Glow® for imperfections:

1. Put on disposable gloves to protect your hands.
2. If using Poli Strip™ concentrate: dilute three parts water to one part product (3:1) in a trigger sprayer. Mist a clean towel with the diluted Poli Strip™ and wipe the affected area gently until the blemish is removed, repeating as necessary and flipping the towel occasionally. Do not rinse with water or attempt to dry the surface. The Poli Strip™ will air dry and evaporate. Rinsing may cause streaks down the surface below the affected area. **Note on removing layers of Poli Glow® on painted aluminum or painted plastic:** If using Poli Strip™, the outer layers of Poli Glow® can be removed with the 3:1 dilution of water to product. However, as you get closer to the paint, add more water to a dilution of 6:1 to prevent damage to the paint. Always pre-test in a smaller, inconspicuous area and convert to Poli Ox™ with the White Non-Abrasive Scrub Pad if changes in the paint occur.



3. If using Poli Ox™: use the White Non-Abrasive Scrub Pads if the blemish is minimal. Use the Ultra-Fine Sanding Pad if the imperfection is deeper and all of the layers of Poli Glow® need to be removed, or for the areas where the Poli Glow® is peeling or cracked. Wet the pad with water and pour a small amount of Poli Ox™ onto the pad. Rub the Poli Ox™ into the pad gently. Wet the affected area with water and scrub until the imperfection has been removed. Repeat the process as necessary, rinsing with water in between to check progress.
4. Now reapply Poli Glow®. Apply a minimum of 3-4 coats of Poli Glow® if partial layers were removed. Applying more coats will not harm the finish. If it is necessary to remove all of the Poli Glow® layers down to the surface at the site of the blemish, then reapply the same number of coats as the surrounding area.

## **CLEAN-UP AND STORAGE**

### **How do I clean the Poli-Mitt™ applicator and scrub pads?**

Cleaning the Poli-Mitt™ or 7" Chamois applicator is easy. After the application of Poli Glow®, rinse the applicator thoroughly with clean, fresh water. The chamois can be removed from the block for more thorough cleaning by unlatching the velcro straps. Use a small amount of Poli Wash Pro™ to help remove dirt and grease if needed. Do not use bleach or fabric softeners. If Poli Glow® has hardened onto the mitt, mist the mitt with a diluted form of the Poli Prep™ or Poli Strip™ concentrate to loosen the Poli Glow® and rinse with water. Alternatively, add 2 ounces of the Poli Prep™ concentrate and 1 ounce of Poli Wash Pro™ to a pail with 3 gallons of water and wash the applicator, microfiber towels, and scrub pads. The Poli-Mitt™ applicator and the microfiber towels can also be washed in the washing machine with warm water, a mild detergent, and several ounces of Poli Wash Pro™ and then machine-dried at a low temperature.

### **How can I store my products?**

All of the products, the Poli-Mitt™ applicator and scrub pads, are reusable. Do not throw them away if product remains or the pads are in good condition. Please store all Poli Glow® products in a cool, dry place. Do not allow the products to freeze or to be exposed to temperatures above 95 degrees Fahrenheit, or they will degrade and not function properly, and will void the warranty.

### **Do any of the products expire?**

Yes, the only product that has an expiration is Poli Glow®. Poli Glow® can be used for up to 2 years after production, after which use of the product yields unexpected results. Please check the expiration date on the bottle. Do not throw unexpired Poli Glow® away if any remains in the bottle. Poli Glow® can be used for touch-ups and maintenance coats within those 2 years. The other products have a much longer shelf life if stored appropriately.

## **MAINTENANCE AND REMOVAL OF POLI GLOW®**

If you want to minimize the work needed to keep your Boat or RV looking brand-new, then maintenance is key. The maintenance and removal process is part of the Poli Glow® Program, Phases 2 through 4. These phases are described in a separate guide called the "Poli Glow® and Poli Grit™ Maintenance and Removal Guide," found on our websites 'How to Use' tab. This guide is dedicated to teaching you how to clean and protect your Boat or RV, how to deal with

imperfections or blemishes that develop after Poli Glow® has been applied (like stains, scratches, and oxidation), and how and why Poli Glow® should be removed and reapplied. Below, we will briefly summarize. The bottom line is that if you maintain Poli Glow®, it will last 5-6 years before you must remove it and reapply, oxidation of the fiberglass surface will no longer be an issue, and your vehicle should always look brand new!

Phase 2 involves general cleaning, repairing imperfections, and maintenance applications. You should periodically wash your Boat or RV throughout the year. It helps keep it looking fresh and clean, and also allows you to inspect the surface for scratches, stains, and oxidation of the Poli Glow® (Yes, Poli Glow® can oxidize, especially in darker-colored units and in more tropical locations. Unfortunately, the sun wins eventually.). At least annually (and in more tropical climates every 8-10 months), a maintenance application of 3-4 coats of Poli Glow® needs to be applied to keep that **#glossthatboss™** on your Boat or RV. The maintenance application protects your unit for another year. No more compounding and buffing! Just wash with Poli Wash™ (see below) and apply 3-4 coats of Poli Glow® over the previously applied Poli Glow® layers. Don't worry, it will blend in without leaving a seam. If, after washing your Boat or RV, you see any scratches, stains, or oxidation of Poli Glow®, perform a spot removal and reapplication to repair that area.

Phase 3 involves the removal process. At about 5-6 years, remove all of the Poli Glow® and reapply a fresh new foundational layer. Now you are in Phase 4, where you will repeat the maintenance and removal process to keep your Boat or RV looking new and brilliant **indefinitely**.

## TIPS AND TRICKS

Our goal at Poli Glow® Products is to make your life easier and give you the products to do that. Poli Glow® is a sealer with hydrophobic properties that will help minimize staining and make cleaning your Boat or RV easier, and it is simple to maintain. For details about some of the products mentioned below, please see the product page on our website.

**Washing your Boat or RV:** This step is easy because dirt and grime will not adhere to the Poli Glow® finish. Do not use ammonia-based products, alkaline or acidic products, degreasers, teak or hull cleaners, or abrasive substances to wash your unit. These products will fade and damage the Poli Glow® finish. Do not use Poli Prep™ to clean the surface, as this will damage and possibly remove Poli Glow®. Instead, use our proprietary formula called **Poli Wash™**, which is Poli Glow®-safe. It is a **high-foaming, super-concentrated, pH-balanced, biodegradable** wash. You can use it repeatedly on Poli Glow® without dulling the shine.

**Dirt and Stain Remover:** As hard as we try, we cannot beat nature. The elements will eventually overcome our diligent efforts, and some stains may set in. The surface will collect dust, dirt, and water spots. When this happens, there is an easy solution called **Poli Super Spray™**, our proprietary professional-grade **waterless detailer**. Poli Super Spray™ works fast and easy on all surfaces, including Poli Glow®, gelcoat, painted surfaces, FBP, clear coat, glass, plastic, vinyl, and rubber trim. This exclusive formula will safely remove dust, mild road grime, fingerprints, and water spots without streaking. Poli Super Spray™ is perfect for spot washing or complete vehicle washing without water. Simply spray on and wipe off.

**Poli Wash Pro™** concentrate is another powerful Poli Glow® safe product that can be used to remove stains. It is an additive to Poli Wash™. If your Boat or RV has persistent stains, dirt, grime, oil, mineral deposits, or salts after washing, add Poli Wash Pro™. This formula will strip any wax or spray-on ceramic applied over Poli Glow® (see below).

**Protect Poli Glow®:** Although Poli Glow® is a sealer and protector, you can prolong its life and minimize the chance of stains and oxidation by protecting it. Many of our customers ask if they can apply a wax over Poli Glow®, and we understand the concept. While it is unnecessary, it can make cleaning and preventing stains easier. Therefore, we have developed **Poli Slick Seal™**, a proprietary professional-grade spray-on ceramic with **UV inhibitors** that is **hyper-slick**, detergent resistant, and protects against oxidation. It is easy to apply, just spray on and wipe into the surface for a high gloss shine, no buffing required. Apply every 4-6 months for maximum benefit. Poli Super Spray™ can also be used over Poli Slick Seal™ to remove dirt and stains quickly.

**Minimize exposure to the elements:** While not always practical, to preserve the high-gloss shine and protection provided by Poli Glow®, it would be ideal to limit its exposure to high temperatures, high humidity, and UV radiation. Options to consider include keeping your Boat or RV indoors or under cover from the sun, minimizing your time in areas with those conditions, or covering your vehicle when possible with a breathable cover. The cover should allow airflow. **Shrink-wrapping** a Boat decreases airflow around the surface and tends to trap water and moisture. Having stagnant water sitting over Poli Glow® for long periods of time under a wrap can damage the finish. We do not recommend shrink wrapping a Boat that contains Poli Glow®.

## WARRANTY

**Congratulations!!** You have successfully applied Poli Glow® to your Boat or RV. You are the proud owner of a brand new-looking Boat or RV!

It is essential to follow these instructions and use Poli Glow® properly. Otherwise, the improper application will void your warranty. Please register and activate the warranty at [www.poliglow.com/register](http://www.poliglow.com/register) within 30 days of purchase.

This warranty **does not** cover Poli Glow® applied by professional detailers. A warranty should be provided to you by the professional who restored your Boat or RV.