# \*\*\*\* CERTIFIED GLIDECOAT OPROA



## **COMPANY OVERVIEW**

Onan Technologies Inc. DBA Glidecoat is the premier manufacturer of protective, preventative and anti-fouling products for the marine, automotive and aviation industries and is based in West Palm Beach, Florida.

When we initially began developing ceramic coatings in 2012, our main focus was the aviation industry, which is still an element of our business today.

In April 2014, Glidecoat started developing a line of products for the marine industry which, when applied to an oxidized or faded boat, could restore the original paint/gel coat finish, in some cases, making it look better than factory new. The last step in the restoration process, the ceramic coating, protects the surface, making it hydrophobic, scratch-resistant and protected from UV damage. This element of surface protection also makes it ideal for new boats, locking in the factory new finish while adding a layer of protection.

Since that time, Glidecoat has invested significantly in research and development. Our primary focus has been on ceramic coatings for the marine industry. Using variations of our ceramic coating, Glidecoat has since developed products for propellers and running gear, stainless steel, inflatable boats, marine glass, vinyl, pontoons, transom/exhaust and a replacement for bottom paint, Glidecoat Underwater Anti-Microbial. In addition, we have developed various restoration and maintenance products, such as compounds, polishes, and washes, which complement our ceramic coatings.

Most recently, capitalizing on our extensive knowledge and experience developing ceramic coatings which can stand up to the harshest marine environments, we have developed products for the Auto and RV markets as well.

Over the last few years, Glidecoat has continued to develop these various products in the market and through independent laboratory testing and the extensive library of case studies and endorsements available on our website, we are confident in saying - **Glidecoat is the Ultimate in Surface Protection**.

## WHAT ARE CERAMIC COATINGS?

2

Ceramic coatings, also known as nano-ceramic coatings or Smart Surface Technology (SST), were initially developed in the 1980s but have just become mainstream in the last 10-15 years, primarily in the automotive industry. In the past, the coatings have mostly been applied to high-end luxury vehicles. It is only in the last few years that ceramic coatings have been more widely available to car owners.

Most recently, ceramic coatings have gained significant traction in the Marine Industry, and boat owners are beginning to embrace the technology.

Ceramic coatings are the result of an application where actual nano-ceramic particles build a consistent network of molecules on a surface. Nano-ceramic particles chemically bond with the paint/gel coat surface to form a layer of protection which makes that surface resistant to extreme corrosion, chemicals, and UV. It also restores color, gloss and surface hardness. In addition, the surface becomes hydrophobic and repels water and dirt, meaning it can be easily cleaned with a hose.

The generic term ceramic coating is used a great deal, yet doesn't describe the distinctions between various coatings and the chemistry involved. You might assume that any product labeled as a ceramic coating is no different from any other, which is not the case. Many products on the market simply use Si02. These products are sometimes labeled as glass, quartz or ceramic coatings. They consist of nano-particles of Silicon Dioxide suspended in resin.

What sets Glidecoat apart from other ceramic coatings is its use of Silsesquioxane [RSiO3/2]n which provides a silica core, conferring rigidity, but also thermal stability, flowability, flexibility, and functionality.

Once applied by a certified applicator, Glidecoat's Marine Ceramic Coatings will continue to preserve the surface of your boat for a minimum of 18 months with little effort. Individual results may exceed this time depending on location, boat use and storage.

For Automotive or RV applications, the coating will preserve the surface for a minimum of 3 years, again depending on vehicle usage, location and storage.



## **PREPARING THE SURFACE**

Any surface defects need to be removed through a process of compounding and polishing before applying Glidecoat Ceramic Coating. The ceramic coating will 'lock-in' the surface and any remaining defects.



d hing and Swirl / Buffer Marks Scratches Scratches Scratches Sufface Defects Sufface Defects

## **CERAMIC COATING**

Even the best polish job will leave microscopic defects in the surface. But by applying a ceramic coating, nano particles fill these defects and bond to the surface to create an incredibly smooth surface which is hydrophobic.



## **Microscopic View of Surface**

#### NOTE:

When applied to the surface, the coating is typically 4-6 microns in thickness, whereas human hair is typically 50 microns.

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Ceramic Coating Fill remaining surface defects & restore shine



## **KEY FACTS**

HOW BIG IS A NANOMETER? There are 25,400,000 NM's in an inch. HOW BIG ARE THE PARTICLES IN GLIDECOAT CERAMIC COATINGS? Average size is 30-40 NM's

The average cross-section of a human hair is 50 microns. The human eye cannot see anything smaller than 40 microns in size.



## THE PRODUCTS

3

Glidecoat has developed many products that employ Smart Surface Nano-Ceramic Technology (SST). The ceramic coating products we currently offer are:

- Glidecoat Pro Marine Ceramic New Formula
- Marine Ceramic Coating
- RPL (Repellent Protective Layer)
- RV Ceramic Coating
- Auto 9H Ceramic Coating
- Glass Ceramic Coating
- Inflatable Ceramic Coating
- Vinyl Ceramic Coating
- Trim Ceramic Coating
- Pontoon Ceramic Coating

Other products within the Glidecoat family are designed to support the core ceramic products. These include Shine & Shield V2.0 Ceramic Spray (Marine, RV, and Auto), X-Salt, Ceraglo, Nano Wash, Nano Compound, Nano Polish, and Surface Wipe, which is a sanitizing agent that is used to prep the surface prior to the application of a ceramic coating. These products are all produced in the USA by custom manufacturers, under license for Glidecoat.

#### NOTE:

Please refer to the individual sell sheets for detailed information on each product.





## PRO MARINE CERAMIC COATING

The Ultimate in Surface Protection is not just a fancy slogan, it's something that we live by at Glidecoat. We have developed the best marine ceramic coating on the market with our Pro Marine Ceramic Coating, but we wanted more! We took our current formula back to the lab to make it even better. What we have achieved is a coating that is much easier to apply because it doesn't flash as quickly on the surface. We also increased the percentage of ceramic in the coating. In short we have developed a more concentrated and durable coating with an easier application.

Our new formulation consists of a proprietary blend of silsesquioxane resins and solvents that create a more compatible mixture compared to the original formula. This compatibility prevents the ceramic from settling in the bottom of the bottle, ensuring optimal consistency during the application.

Glidecoat's Pro Marine Ceramic Coating utilizes a two-part system because it is naturally stronger than a one part coating. Once mixed and exposed to oxygen, the two part formula creates a chemical reaction that begins the curing process. During the curing process the coating creates extensive crosslinking between polymer chains to produce an infusible and insoluble polymer network. This type of formula is known as a thermoset.

#### BENEFITS

- NEW FORMULA Slower flash time for easier application.
- NEW FORMULA Higher percentage of ceramic ingredient increases durability and protection.
- **NEW FORMULA** Increased coverage approximately 20% additional SQFT.
- Creates a diamond-hard finish (9H) that can protect the surface across multiple seasons depending on location.
- Creates a hydrophobic surface the repels water, dirt, acid rain, and fish blood.
- Inhibits rusting and tarnishing on polished metal.
- Reflects UV rays, providing long term protection from sun damage.
- This product fully cures in 12-15 hours (other ceramic coatings take 3-5 days).
- Locks the surface so acid rain, bird droppings and pollen and more cannot penetrate the gelcoat/paint.
- Eliminates mold and mildew by sealing pores in gel coat and caulking.
- Once Glidecoat Pro Marine Ceramic Coating is applied, no waxing is required significantly reducing maintenance.
- Ongoing maintenance after coating wash the boat every 2-4 weeks with Glidecoat Ceraglo and apply Marine Shine & Shield every 3-4 months on the bow and other high profile areas that receive heavy sun exposure.



#### NOTE:

Glidecoat Pro Ceramic Coating must be applied by a Certified Glidecoat Pro. Applications qualify for an 18-month warranty.



## APPLICATION INSTRUCTIONS

- Prior to applying Pro Marine Ceramic Coating, ensure the surface has been sufficiently prepped, removing all oxidization, surface scratches and swirls marks. Pro Tip: Use your cell phone flashlight to shine a light onto the surface, this will show you the true condition of the surface allowing you to see if there are any remaining scratches or swirl marks.
- Apply a quarter sized amount of coating directly onto the center of applicator pad.
- Working in 3'x3' sections, apply the coating in a crosshatch pattern, working up and down then side to side.
   Ensure the entire section is fully covered with coating.
- Once the coating has been applied to your section immediately buff the coating with a high quality microfiber cloth, using medium pressure to work the coating into the pores of the surface. Follow with a second clean microfiber cloth to ensure a consistent finish, removing any excess coating. Pro Tip: If any high spots are visible, use the applicator pad to apply a small amount of coating to the high spot. Buff the area again with a microfiber to smooth out the high spot.
- Complete this process across all areas to be coated, working in 3'x3' sections at a time. Be sure to slightly overlap your sections to ensure a consistent finish.
- Wait at least 1 hour before applying the second coat on all areas.

#### TIPS AND TRICKS

- Once the two-part coating has been mixed, make sure to consistently shake the bottle to ensure the coating is thoroughly mixed, avoiding any settling inside the bottle.
- If you still have coating remaining after completing a job, store the coating in the freezer to extend the shelf life. This will keep the coating good for 2-3 months.
   Allow the coating to return to room temperature before using again.
- Pro Marine can be applied to gel coat, marine paints, stainless steel, aluminum, varnished woods, and plastics.

ACCELERATED WEATHER TESTING RESULTS				
TEST DURATION /	UNCOATED		GLIDECOAT P	
REAL WORLD EQUIVALENT*	GLOSS METER READING	% LOSS	GLOSS METER READING	% LOSS
Initial Reading	99	-	90	-
500 hours / 12 months	54	45%	89	1%
1000 hours / 18 months	3	96%	85	5%
1500 hours / 2 years	1	98%	74	16%

\* Real-world equivalent is an approximation based on information received from an independent laboratory





## MARINE CERAMIC COATING

Similar to Pro Marine Ceramic Coating, the coating's microscopic nano-particles penetrate the gel coat, paint or polished metal surface, filling the pores, micro-scratches and scrapes leaving a hydrophobic, glass-like appearance.

The major differences between this coating and Glidecoat's Professional Marine Ceramic Coating are that this coating is a single part, with no mixing involved. There is also a reduced amount of solids, which results in a slightly thinner coating - approximately 2 microns per coat compared to 4 microns per coat for the Pro Marine Coating. This results in decreased durability. In our testing, the coating has been shown to last 18 months. Marine Ceramic Coating also has a slower cure time -48 hours compared to 12 to 15 hours for the Pro Marine.

Overall, the coating is 'easier' to apply, but this is balanced against the slower cure and decreased durability.

#### **APPLICATION INSTRUCTIONS**

- Prior to applying Marine Ceramic Coating ensure the surface has been sufficiently prepped, removing all oxidization, surface scratches and swirls marks. Pro
   Tip: Use your cell phone flashlight to shine a light onto the surface, this will show you the true condition of the surface allowing you to see if there are any remaining scratches or swirl marks.
- Apply a quarter-sized amount of coating directly onto the center of the applicator pad.
- Working in 3'x3' sections, apply the coating in a cross-hatch pattern, working up and down then side to side. Ensure the entire section is fully covered with the coating.
- Once the coating has been applied to your section immediately buff the coating with a high-quality microfiber cloth, using medium pressure to work the coating into the pores of the surface. Follow with a second clean microfiber cloth to ensure a consistent finish, removing any excess coating.
- Complete this process across all areas to be coated, working in 3'x3' sections at a time. Be sure to slightly overlap your sections to ensure a consistent finish.
- Wait at least 1 hour before applying the second coat on all areas.

#### TIPS AND TRICKS

 Marine Ceramic Coating is our easiest to apply and most versatile coating. Marine can be applied to gel coat, marine paint, non-skid surfaces (only 1 coat recommended), stainless steel, aluminum, varnished woods, plastics, and glass.

#### NOTE:

This product does not come with a warranty period.





## PRO RV CERAMIC COATING

Designed with the Professional in mind, we have delivered the ultimate protective coating for RV gel coat, giving your customer's RV a better-than-new finish. Our coating uses nanotechnology to fill in the microscopic pores and scratches on surfaces like gel coat, paint, and polished metals. This creates a super-smooth highly hydrophobic surface, greatly reducing maintenance. Contaminates like dirt, salt and bugs sit on top of the surface rather than absorbing into the pores.

In addition the coating contains UV inhibitors which protect the RV from UV damage and because it bonds directly to the surface it provides superior protection that has been tested and proven to last over 24 months – far exceeding traditional wax products. Compared to other vehicles, RVs have the added challenge of gelcoat, which is much more porous than painted aluminum or steel. Through exposure to the elements, especially UV, gelcoat becomes even more porous, which leads to staining, difficulty cleaning and even a cloudy, chalky, yellow appearance caused by oxidation.

## CERTIFIED GLIDECOAT PRO

#### NOTE:

Glidecoat Pro Ceramic Coating must be applied by a Certified Glidecoat Pro. Applications qualify for a 2 year warranty.

#### BENEFITS

- Restores and protects faded or chalky gel coat.
- Creates a diamond-hard finish (9H) that can protect the surface across multiple seasons depending on location.
- Creates a hydrophobic surface the repels water, dirt, acid rain, and fish blood.
- Inhibits rusting and tarnishing on polished metal.
- Reflects UV rays, providing long term protection from sun damage.
- This product fully cures in 12-15 hours (other ceramic coatings take 3-5 days).
- Locks the surface so acid rain, bird droppings and pollen and more cannot penetrate the gelcoat/paint.
- Eliminates mold and mildew by sealing pores in gel coat and caulking.
- Once Glidecoat Pro Marine Ceramic Coating is applied, no waxing is required - significantly reducing maintenance.
- Ongoing maintenance after coating wash the boat every 2-4 weeks with Glidecoat Ceraglo and apply RV Shine & Shield every 3-4 months on the front cap and other high profile areas that receive heavy sun exposure.

#### APPLICATION INSTRUCTIONS

 Refer to application instructions for Pro Marine Ceramic Coating.





## **RV CERAMIC COATING**

Compared to other vehicles, RVs have the added challenge of gel coat, which is much more porous than painted aluminum or steel. Through exposure to the elements, especially UV, gel coat becomes even more porous, which leads to staining, difficulty cleaning and even a cloudy, chalky, yellow appearance caused by oxidization. Simply remove oxidization and surface imperfections with Glidecoat compounds and polishes. Then top with Glidecoat RV Ceramic Coating to restore gel coat to a better-than-new finish.

Our ceramic coating fills the pores of your client's RV's gel coat and bonds directly to the surface to provide protection that has been tested and proven to far outlast traditional wax products.

It actually bonds to the surface to create a layer of protection that won't wash or melt away – even under high temperatures. In fact, Glidecoat has had extensive field testing on all forms of gel coat and painted surfaces in extreme weather conditions by accredited independent laboratories and has been proven to provide at least 18 months of protection under even the harshest conditions. Furthermore, under "average conditions" and through proper maintenance (regular washing and application of RV Shine and Shield), the results from our ceramic coating have far exceeded this 18-month minimum.

#### BENEFITS

- Dramatically reduces maintenance no waxing is required and cleaning is a breeze.
- Creates a diamond-hard coating that resists scratches and repels stains from acid rain, bird droppings, mud, dirt and other road contaminants.
- Reflects UV rays, providing long-term protection from sun damage and oxidization.
- Laboratory and in-field tests prove a minimum of 18-month protection with more depending on location, usage and storage.
- Higher ceramic content makes it strong enough for gel coat, but can also be applied to painted surfaces, glass or metal.
- Extends the life of your gel coat or paint.
- Gloss and color rejuvenation Restores color and gloss 35% more than traditional wax.
- Water beads off improving wet weather driving visibility.
- Removes haze and oxidization from headlights to restore their original shine.
- Perfect for winter protection prevents ice and snow adhesion and repels salt.
- Improved aerodynamics for any coated surface.

#### APPLICATION INSTRUCTIONS

• Refer to application instructions for Marine Ceramic Coating.





## PRO AUTO CERAMIC COATING

As with all of the Glidecoat ceramic products, Pro Auto builds on our extensive ceramic coating experience to provide longlasting shine and superior ceramic protection under even the harshest conditions. The ceramic coating fills in the pores of the vehicle's paint/clear coat, and bonds directly with the surface, creating a hard protective barrier that is extremely hydrophobic, repelling dirt, water, and other contamination, making ongoing maintenance of your vehicle a breeze!

But we have gone even further by taking the feedback of our Certified Pro network and developing a coating that meets the needs of the Professional Auto Detailer. We have increased the percentage of active ingredient in our new Pro Auto formula, while still maintaining the ease of application on clear coated and painted surfaces. This increased level of active ingredient allows the coating to provide increased protection. While the Glidecoat Auto 9H provided 3 years of protection with 2 coats, you can now get the same level of protection in a single coat. This means your customers can easily drop off their vehicle for ceramic coating and pick it up the same day.

We have also improved the hydrophobic properties of the coating. The new Pro Auto Ceramic Coating has a higher contact angle and decreased shedding angle. This means that more of the water sheds off the vehicle requiring less drying and greatly reducing water spots.

- Single Coat: Minimum of 3 years protection with just one coat. Easily detail and ceramic coat your customer's vehicle and return it the same day.
- Increased Active Ingredient: Compared to our Auto 9H Ceramic Coating, we have increased the active ingredient providing increased protection and durability.
- Ease of Application: Despite increased active ingredient, we have maintained the ease of application for clear coat and painted aluminum surfaces.
- Extremely Hydrophobic: Improved contact angle results in increased hydrophobic properties, easily repelling water, rain, dirt, bugs, bird droppings, and other contaminants.
- Improved Water Shedding: Water sheds off the vehicle requiring less drying and greatly reducing water spots.
- Single Part Coating: Compared to our other Pro coatings which are two parts (two bottles which need to be mixed together), Pro Auto is a one part coating.
- UV Protection: Reflects harmful UV rays providing longterm protection against sun damage and fading.
- Gloss and Color Rejuvenation: Restores color and gloss 35% more than traditional wax.
- Hard Protective Coating: Provides 9H hard protective barrier.



#### **APPLICATION INSTRUCTIONS**

- Prior to applying Pro Auto Ceramic Coating, ensure the surface has been properly prepped and cleaned, removing all oxidization, surface scratches and swirl marks. Pro Tip: Use a cellphone flashlight to shine onto the surface. This will highlight the true condition of the vehicle allowing you to see any remaining scratches, swirl marks or imperfections.
- Apply 5-10 drops of coating directly onto the applicator sponge.
- Working in a 4' by 4' section, apply the coating in a cross-hatch pattern, working up and down then side to side. Ensure the entire section has been fully covered with the coating.
- Immediately buff the coating with a high-quality microfiber cloth. Use medium pressure to work the coating into the pores of the surface. Follow with a second clean microfiber to ensure a smooth consistent finish, removing any excess coating.
- Complete this process across the entire vehicle / all areas to be coated. Continue working in 4'by 4' sections, slightly overlapping to ensure a consistent finish.
- Although not required, additional coats can be layered for added protection. Wait at least 1 hour between coats.
- Allow 10-12 hours before getting wet.
- Full cure takes 48 hours.



45 (new)

AVG contact Angle: 95



#### NOTE:

Pro Auto Ceramic Coating applications can be registered for a 3-year warranty when applied by a Certified Glidecoat Pro.



## **AUTO 9H CERAMIC COATING**

The process of applying Glidecoat Auto 9H to your client's vehicle is not difficult, although preparation is key. Once completed you will notice just how well the car is protected. Rain will bead on the car surface and simply 'glide' off. Dirt, salt, bugs and insects will just rinse off. Even ice is prevented from adhering to the surface of the vehicle, making winter maintenance a breeze. The coating is also UV resistant which will ensure the paint finish lasts considerably longer, maintaining that high-end shine.

#### BENEFITS

- Gloss and color rejuvenation restores color and gloss 35% more than traditional wax.
- Provides a diamond-hard coating that resists scratches and stains.
- Water beads off improving wet weather visibility.
- Removes haze and oxidization from headlights to restore their original shine.
- Reflects UV rays, providing long term protection from sun damage.
- Repels stains from acid rain, bird droppings and pollen.
- Perfect for winter protection prevents ice and snow adhesion and repels salt.

- Once Glidecoat Auto 9H is applied, no waxing is required - significantly reducing maintenance.
- Improved aerodynamics for any coated surface.
- Stops polished metal from rusting and tarnishing.
- Laboratory and in-field tests prove a 36-month life span with proper aftercare.

#### APPLICATION INSTRUCTIONS

- Prior to applying Auto 9H Ceramic Coating ensure the surface has been sufficiently prepped, removing all oxidization, surface scratches and swirls marks. Pro Tip: Use your cell phone flashlight to shine a light onto the surface, this will show you the true condition of the surface allowing you to see if there are any remaining scratches or swirl marks.
- Apply 5-10 drops of coating directly onto the center of the applicator pad.
- Working in 3'x3' sections, apply the coating in a cross-hatch pattern, working up and down then side to side. Ensure the entire section is fully covered with the coating.
- Once the coating has been applied to your section immediately buff the coating with a high-quality microfiber cloth, using medium pressure to work the coating into the pores of the surface. Follow with a second clean microfiber cloth to ensure a consistent finish, removing any excess coating.
- Complete this process across all areas to be coated, working in 3'x3' sections at a time. Be sure to slightly overlap your sections to ensure a consistent finish.
- Wait at least 1 hour before applying the second coat on all areas.





## TRIM CERAMIC COATING

Glidecoat Trim has been specially formulated to bond directly to the pores of exterior textured plastic surfaces such as black bumpers, windshield cowls, side moldings, bed rails and tonneau covers to name a few. Glidecoat Trim Ceramic preserves the color of new trim and protects against fading and oxidization for up to two years. It will also restore the color and luster of faded or oxidized trim back to new and protect going forward from further fading and staining due to exposure to UV rays and the elements. Glidecoat Trim is also hydrophobic, making your trim easier to clean and safer to remove dirt without scratching or damaging.

Unlike other coatings and restorers, this ceramic coating for plastic trim does not contain any pigment and is safe to use on all colors of trim.

Because textured plastic is somewhat flexible, it is not recommended to use hard ceramic coatings designed for painted surfaces, such as Glidecoat Auto 9H. In addition, Glidecoat Auto 9H has a high-gloss finish, which when applied to trim, may not be the desired finish. Glidecoat Trim has a satin finish which is less glossy and better suited to trim.

Do not use on step bars or bumper steps as it will make the surface slippery.

#### BENEFITS

- Can be used to protect black bumpers, windshield cowls, side moldings, bed rails, tonneau covers, headlights, textured bumpers, engine bay plastics or any other exterior plastics.
- Easy to apply.
- Protects and preserves color of new trim.
- Restores color and luster of faded or oxidized trim.
- Gives trim a vibrant satin finish.
- Long lasting protection up to 18 months.
- Creates a hydrophobic surface making trim easier to clean and remove dirt without scratching or damaging.
- Free of pigments so it can be used on any color trim.

#### APPLICATION INSTRUCTIONS

- Ensure the surface is clean and free of contaminants by washing with Nano Wash. For large amounts of surface dirt and grime, try Glidecoat Heavy Duty Cleaner.
- Wipe with Glidecoat Surface Wipe prior to application. to remove oils and contaminants before applying.
- Shake well before and during use.
- Apply 2-3 drops of Glidecoat Trim directly to included application sponge or a clean microfiber cloth. Using a back-and-forth motion, apply the coating to the surface. Wipe off any access by gently buffing with another clean micro-fiber.
- For older or heavily-faded surfaces, use 2-3 coats to protect and fully restore luster and color.
- Avoid exposure to moisture for 12 hours and wait at least 48 hours before washing.
- Store in a cool dry place. Once opened, keep container tightly sealed and store in freezer to prevent curing.
- Designed for exterior plastic trim, we do not recommend using on vehicle interiors.
- Wear protective gloves (included) and eye wear. Do not smoke while using. Keep away from heat, hot surfaces and open flames.





## **VINYL CERAMIC COATING**

Glidecoat's Vinyl Ceramic Coating prolongs life and improves the appearance of vinyl and similar materials. It has been developed for vinyl that is exposed to the elements, such as vinyl cushions in a marine environment, but it also has uses in the home and auto sectors.

When developing this product it was critical that we made a coating that offers the same protection as our ceramic coating, yet has the flexibility needed to bond to a surface that can contract and expand. It also needed to be impervious to a variety of chemicals, such as tanning lotion, sunblock, skin creams, etc.

#### **APPLICATION INSTRUCTIONS**

- Before moving to step one, take a small amount of product and apply it to an area of the vinyl to ensure there is not a negative chemical response.
- Prior to applying the Vinyl Ceramic Coating, ensure the vinyl has been properly prepped and clean, removing any staining, rub marks, or surface dirt.
- Use a degreaser to clean the vinyl cushions. A magic eraser can be extremely effective to remove heavy stains and rub marks.
- Wash the vinyl cushions with a soft brush and Glidecoat's Nano Wash, removing any remaining degreaser or dirt.
- Rinse all soap off of the cushions and dry with a chamois or towel. Ensure the cushions are completely dry before application.
- Apply a quarter-sized amount of Vinyl Ceramic Coating to the application sponge. Spread the coating evenly across a small area making the vinyl look wet or shiny. Use a microfiber cloth to buff the coating into the vinyl while removing any excess coating. Note: all excess coating must be removed or those areas may turn yellow over time.
- For optimal results and protection, apply a second coat to all areas, waiting at least 1 hour between coats.
- Allow 24 hours to cure before getting wet.

#### TIPS AND TRICKS

 Glidecoat's Vinyl Ceramic Coating can be applied to SeaDeck type material to protect from staining and making ongoing maintenance much easier.





## **GLASS CERAMIC COATING**

Glidecoat's Glass Ceramic Coating provides superior protection for your glass windows and car/boat windshield. Glidecoat's Glass Ceramic Coating provides all the benefits of our Smart Surface Technology in an easy to use glass coating. The coating transforms glass surfaces into a hydrophobic super smooth surface that water sheets off making it easier to maintain and also easier to see through in rainy conditions. Watermarks, hard water spotting and calcium staining will be a thing of the past! It also prevents mirrored or tinted glass from the fading or discoloring that results from UV damage.

One application will last up to one year and where wiper blades are in use, it will reduce the friction resulting in longer use of the blades, before replacement.

#### **APPLICATION INSTRUCTIONS**

- Before application, ensure all glass areas have been cleaned and are free from any watermarks or salt buildup. Use an alcohol-based cleaner such as Glidecoat's Surface Wipe, or 1 part vinegar to 10 parts water in a spray bottle to clean and decontaminate the glass prior to application.
- To apply the coating, pour 5-10 drops of Glidecoat Glass Ceramic Coating on to the application sponge. Cover the surface lightly in a cross hatch pattern. Lightly buff with a new, clean lint free microfiber cloth. Buff the surface so there are no streaks, removing all excess product.
- For those areas, that see windshield wiper use, we recommend a second coat in 20 30 minutes.
- Do not apply in directly sunlight and glass should becool to the touch before application.
- Glidecoat Glass Ceramic Coating can be applied to a variety of glass surfaces including shower stalls, windshields, auto, marine & home windows, mirrors etc.
- Allow 6 to 8 hours to cure before getting wet.

#### TIPS AND TRICKS

- Glidecoat's Glass Ceramic Coating can also be applied by hand with a sponge or microfiber application, wiping directly onto the glass surface then buffing with a microfiber cloth.
- Glidecoat's Glass Ceramic Coating can be applied to a variety of glass surfaces including shower doors, windshields, auto, marine and home windows, and mirrors.



#### BENEFITS

- Reduces color fading and UV damage by 45%.
- Reduces adhesive failures.
- Increases material resilience to heat expansion.
- Prevents leaks and damage from soft impacts.
- Increases the life cycle of material by 25%.
- Prevents mold and dirt staining.
- Increases the life cycle of a PVC tender by 30% when left exposed to the sun.

#### APPLICATION INSTRUCTIONS

- Use a degreaser to remove any stains, rub marks, or surface dirt. Pro Tip: Magic Erasers are the perfect cleaning tool to help remove heavy staining and/or scuff marks on the inflatable tubes.
- Wet down the entire tender and clean with a soft brush and Glidecoat Nano Wash removing all surface dirt.
- Rinse all soap off the tender and dry with a chamois or towel, making sure the tender is completely dry before application.
- Apply a quarter-sized amount of Inflatable Coating to the application sponge, spread the coating evenly across a small (3'x3') area making the tubes look wet or shiny. Use a microfiber cloth to buff the coating into the surface while removing any excess coating. Note: all excess coating must be removed or those areas may turn yellow over time.
- For optimal results and protection, apply a second coat to all areas, waiting at least 1 hour between coats.
- Allow 24 hours to cure before use.

## **INFLATABLE CERAMIC COATING**

NFLATABLE

The biggest issue for Inflatable fabrics is damage from the sun's UV rays. PVC especially, has been known to be very susceptible to UV damage; even more than CSM (Hypalon). Glidecoat's Inflatable Ceramic Coating protects against damage from UV and heat by reflecting UV rays and making the rubberized fabric more resilient to expansion.

GLIDECO

Independent lab results show that after one year of highintensity UV, Glidecoat Inflatable reduced color and gloss fading by 45% along with eliminating drying, cracking, and adhesive separation. Also, Glidecoat Inflatable increased the life of PVC that was exposed to 500 hours of intense UV rays (comparable to 1 year in South Florida) by 45%.

In general, tenders are hard to keep clean because of the highly porous fabric material. Glidecoat Inflatable uses our exclusive Smart Surface Technology to fill in the microscopic pores of rubberized fabric material like CSM (Hypalon) and PVC to create a super smooth surface that repels water, dirt, and salt. It also increases the tolerance against unsightly marks, damage, leaks and adhesive failures at the seams that are a result of soft impacts and abrasion.

In addition, inflatables coated with Glidecoat can be covered and stored without the concern of mold and moisture damage. By filling in the pores, Glidecoat Inflatable stops moisture from absorbing into the boat's rubberized fabric material thereby eliminating mold and stains.





## **RPL (REPELLANT PROTECTIVE LAYER)**

Glidecoat RPL is an outstanding final finishing top coat for boats, cars or RV's that are having problems with persistent exhaust soot or other carbon-based airborne pollutants that appear based on location.

This product provides a repellent protective layer (RPL) that is highly oleophobic. RPL is designed to enhance the selfcleaning of the surface, providing the ultimate protection against exhaust staining, black streaks and more! This means that any black lines or stains that still appear will be much easier to clean using only soapy water and a light washcloth.

Testing has also shown RPL to be effective in repelling bug stains when used on the front cap of RV's and the front end of automobiles.

RPL does not protect the surface from UV damage or oxidization, therefore we recommend applying at least 2 coats of a Glidecoat Ceramic Coating prior to applying RPL.

#### BENEFITS

- Coated area becomes a self-cleaning surface. Exposure to natural light chemically breaks down dirt and other contaminates.
- Oleophobic (Oil Repellent) surface.
- Creates an extremely hydrophilic surface which aids self-cleaning by sheeting water that carries away dirt and contaminates.
- RPL is a final step coating used to combat exhaust stains or excessive black streaks. When paired with ceramic coating, wash stains away with soap and water, avoiding the need for harsh chemicals.

#### APPLICATION INSTRUCTIONS

- Before applying RPL, we recommend at least two coats of a ceramic coating (Pro, Marine, Auto or RV).
- RPL can be applied by spraying directly on the surface and buffing with a clean microfiber cloth, or by hand with a microfiber applicator.
- Ensure surface is completely clean before applying RPL.
- **SPRAY APPLICATION** Lightly mist RPL onto a 3' by 3' section. Ensure the entire section is covered. Buff the surface with a clean microfiber cloth, removing excess coating to achieve a uniform finish.
- HAND APPLICATION Apply a quarter-sized amount of RPL to a microfiber applicator. Working in a 3' by 3' section, move the applicator up and down, then side to side. Ensure the entire area is covered. Buff with a clean microfiber cloth, removing any excess coating to achieve a uniform finish.
- RPL only requires 1 coat.
- Allow 12 hours to cure before getting wet.

#### TIPS AND TRICKS

 RPL can be applied to all areas that have been coated with ceramic coating to enhance the self-cleaning properties of the coating, making ongoing maintenance much easier.





The left side of the panel is coated with Glidecoat RPL whereas the right side isn't. Both sides had carbon black applied and then rinsed with water.





## PONTOON CERAMIC COATING

Until now, cleaning and protecting the actual metal pontoons was a challenge for most owners. Glidecoat Pontoon is a hybrid sol-gel coating that molecularly bonds to the surface. It is meant to be applied directly to metal (iron alloy, galvanized steel, phosphate steel, stainless steel, and aluminum). As a direct-metal sol-gel based anti-corrosion coating, it can also be used as a micrometer-thin primer under conventional organic coatings. This means it can be overcoated by various paints, though it fits best with epoxy primer and polyurethane topcoat systems.

#### BENEFITS

- Over 2000 hours resistance to damage caused by sunlight, rain and dew – Results from QUV Accelerated Weather Testing.
- Over 1000 hours of salt spray resistance Neutral Salt Spray (NSS) using ISO 9227 standards testing.
- Over 1000 hours of weather resistance SAE J2304 standards testing.
- Creates a hydrophobic surface with a water contact angle of 90 degrees (CAH20=90).
- Provides superior protection 4-5H hardness equal to that of steel.
- Good overcoatability with epoxies.

#### **APPLICATION INSTRUCTIONS**

- Before applying Glidecoat's Pontoon Ceramic Coating ensure that the tubes have been thoroughly cleaned and prepped. The Pontoon Ceramic Coating is designed to lock in and enhance the current condition of the tubes, but it will not hide any imperfections or remove any oxidization.
- Once the tubes have been prepped, use Glidecoat Surface Wipe or Isopropyl Alcohol to decontaminate and clean the tubes. This will remove any remaining polish or compound residue from the surface so the coating can bond directly with the substrate. Apply surface wipe or denatured alcohol to a microfiber cloth and wipe down any areas that will be coated.
- Apply a quarter sized amount of Glidecoat Pontoon Ceramic Coating to the applicator sponge. Working in a 3ft by 3ft section wipe the coating on in an up and down, then side to side motion, ensuring that the entire section is fully covered. Once the coating has been applied to the section use a microfiber cloth to buff the area, working the coating into the pores of the surface while removing any excess coating. Use a second clean microfiber cloth to ensure the section is smooth and consistent.
- When moving to your next section make sure to overlap approximately 1 inch of your previous section to ensure a consistent finish throughout.
- Allow a minimum of 1 hour between coats.
- A minimum of two coats is required for optimal results. We recommend a minimum of 3-4 coats for areas at or below the waterline.
- Allow 12-24 hours of curing time before splashing the boat in the water.





## **HYDROPHOBIC SPRAY & RINSE**

Experience the easiest surface protection available! Glidecoat Hydrophobic Spray & Rinse is a water activated formula that utilizes a stream of water to activate the coating. Simply spray on and rinse away to instantly make virtually any surface extremely hydrophobic. With one simple application, the coating provides up to 3 months of great water beading action, added gloss, surface slickness and UV protection.

Glidecoat Hydrophobic Spray & Rinse is extremely versatile and can be applied to a wide range of surfaces across your boat, RV, car, motorcycle or plane. Surfaces include paint, gel coat, glass, metal, rims, hard plastics, vinyl cushions, truck bed covers and more! It is ideal for ongoing Ceramic Coating maintenance and works great as a standalone product on unprotected surfaces, allowing you to add a layer of protection in a matter of minutes!

- Easy Application Simply Spray and Rinse.
- Instant Water Beading.
- Added Gloss and Surface Slickness.
- Up to 3 Months Protection.
- Ideal Maintenance for Ceramic Coating. Can Also be used for uncoated surfaces.
- Extremely Versatile can be applied to virtually any surface.
- Multiple layers can be applied for added hydrophobics and protection.



#### APPLICATION INSTRUCTIONS

- For optimal performance apply Hydrophobic Spray & Rinse to a clean, wet surface.
- Soap wash or thoroughly rinse boat, car, or RV prior to application.
- Attach the hose end sprayer to any standard hose.
- Turn the hose end sprayer to the spray position (left) to apply the product to the surface, working in sections no bigger than 10ft by 10ft.
- For best results, allow the product to dwell on the surface for 30 seconds to 1 minute.
- Once the product has been applied to the surface, turn the hose end sprayer to the water position (right). Thoroughly rinse the section with the water setting and watch the surface become instantly hydrophobic! Multiple layers can be applied immediately for added hydrophobics and protection.
- **Please note:** Do not let the product completely dry on the surface before rinsing. This will cause streaking in the finish. If this does happen, wipe the surface with a wet microfiber cloth to remove the streaks.
- Continue this process across all areas you wish to add protection, ensuring the surface is wet prior to applying.
- Once all areas are coated with Hydrophobic Spray & Rinse it is highly recommended to dry the surface with a microfiber cloth or shammy to avoid potential streaking. If you notice any streaking on the surface wipe the streaks away with a wet microfiber cloth. If you are working in direct sunlight, you should dry sections as you go to avoid the surface drying too quickly.
- If you are applying Hydrophobic Spray & Rinse to a faded or oxidized surface, multiple layers may be required to achieve desired hydrophobic results.

#### TIPS AND TRICKS

- When using the included spray attachment on the spray setting, there is approximately 1 minute of product dispersion until the 32oz bottle is empty.
- To avoid using the product too quickly, we recommend starting at the top of your desired section and moving down in an "S" shaped pattern. This will allow the product to run down the surface and cover the entire section.





## SHINE & SHIELD V2.0 (MARINE, RV & AUTO)

The Ultimate in Surface Protection made easy! Shine and Shield 2.0 pushes the boundaries of a ceramic spray with 42% active ingredient in the Marine and RV variations and 22% active ingredient in the Auto variation, giving you ceramic protection for up to 6 months with a simple application. Our proprietary blend of four different silicone polymers creates a high gloss finish that is extremely hydrophobic and super slick.

Shine and Shield 2.0 provides a protective layer on the surface, making it much easier to clean and maintain while also protecting against UV damage. Shine and Shield 2.0 is also the perfect after care product for a ceramic coating to recharge and enhance the gloss and hydrophobic qualities of the ceramic coating.

Shine and Shield 2.0 is an extremely versatile product that can be applied to gel coat, paint, clear coat, glass, plastic, trim, vinyl, rims and metal.

#### \*Not for use underwater.

- SUPERIOR GLOSS & SHINE Our proprietary polymer blend delivers a high gloss finish restoring your boat's shine!
- **EXTREMELY HYDROPHOBIC** Once applied, Marine Shine & Shield 2.0 creates an extremely hydrophobic, super-slick surface. This prevents water and contaminates from bonding to the surface making maintenance quick and easy.
- PROTECT YOUR BOAT PAINT / GELCOAT Have you ever returned back from an enjoyable day on the boat and had to wash away lake scum, bird droppings, leaf stains and/or salt from your boat? After applying Shine & Shield your boat will be protected from these elements and can simply wipe off!
- LONGEVITY Do you get frustrated when you either wash and wax your boat (or pay a detailer) and within a couple of weeks, the shine and luster are gone? Marine Shine & Shield 2.0 has 42% active ingredient making it strong enough to protect your boat for up to 6 months.
- **PREVENT SUN DAMAGE** Gel coat or paint on older boats (especially dark-colored hulls) fade and show signs of sun damage. Marine Shine & Shield 2.0 includes UV inhibitors which eliminates UV damage and keeps your boat's color vibrant!
- **EASY APPLICATION** Your time is important and reducing the amount spent detailing your boat is a must. With our product, you can simply spray and wipe off with a microfiber towel. Easy!



#### APPLICATION INSTRUCTIONS

- For best results, we recommend washing before applying.
- Spray directly onto the surface holding the bottle 8-10" away. Cover an area roughly 3 square feet.
- Lightly buff with a clean microfiber until the section is smooth and uniform. A second microfiber may be required to remove any excess product from the surface.
- Avoid applying in direct sunlight or to a hot surface. This will cause the product to flash off the surface quickly, making it more difficult to buff the product off and could cause streaking. If you experience this use a damp microfiber to buff the area, followed by a dry microfiber to remove any excess.
- Multiple coats can be applied for added gloss and longer lasting protection. To achieve the results stated, we recommend a minimum of 2 coats.
- Shine & Shield must be used within 2 years of the date purchased. Once opened, the shelf life is 1 year
- For optimal results with Shine & Shield, make sure the surface does not have any oxidization. If oxidization is present,we recommend buffing with compound and/ or polish to clean the surface, then applying the Shine & Shield. Our product is designed to help enhance the surface – not remove oxidization!
- A 16oz bottle will typically cover a 24' boat, hull and topside.

#### **TIPS AND TRICKS**

- Shine & Shield can be used as a stand-alone sealant that will protect the surface for up to 6 months. Shine & Shield can also be used as a topcoat for any of our ceramic coatings (excluding RPL) for ongoing maintenance. Use Shine & Shield every 3-4 months to extend the life of the ceramic coating while adding extra gloss, shine, and hydrophobic capabilities.
- For added protection and longevity apply 2 coats of Shine & Shield to the surface, allow a minimum of 1 hour between coats.
- Shine & Shield can be applied to a wet surface, allowing you to dry the boat while adding protection to the surface. Spray Shine & Shield after rinsing the surface, then buff the area with a microfiber cloth to dry the surface while working the Shine & Shield into the surface, achieving a smooth consistent finish.
- Shine & Shield can be applied to gel coat, paint, glass, vinyl, metal, and plastic surfaces.
- For optimal results and a flawless finish, we recommend using two microfibers when applying. Use the first microfiber to buff Shine & Shield into the pores of the surfaces, applying medium pressure. Use the second microfiber to remove any excess liquid on the surface to achieve a smooth and consistent finish.
- Shine & Shield can be used as often as you want. It is designed to adhere to itself, so each time you use Shine & Shield it will add an extra layer of protection and shine to the surface.



### **CERAGLO POLYMER INFUSED SOAP**

Ceraglo is the perfect after-care soap for any ceramic coating, whether it is a boat, car, RV, plane, or motorcycle. Ceraglo is a pH neutral polymer infused premium soap that produces a high foam content to safely remove dirt, oils, salt, and other contaminants without scratching or harming the surface. The added polymer provides an additional layer of protection on top of a ceramic coating to help extend the life of the coating. The wash may also be used on an uncoated surface to clean and add protection at the same time.

This product should not be used prior to the application of a ceramic coating as it will prevent the coating from properly bonding to the surface.

#### BENEFITS

- Ideal after-care wash for any ceramic coating.
- Adds gloss and protection while you clean.
- Polymer infused premium soap.
- PH neutral.
- Concentrated formula.
- Works for coated or uncoated surfaces.
- Promotes a hydrophibic surface.
- Extend the life of ceramic coating.

#### APPLICATION INSTRUCTIONS

 Add 2-4 ounces per 2.5 gallons of water in your wash bucket.





## **X-SALT CONCENTRATED SALT REMOVER**

X-Salt is Glidecoat's answer to salt build-up on the surface of your boat, car or RV. Water and soap alone will not remove excess salt build-up, leaving traces of salt on the surface. Over time exposure to salt will cause corrosion and damage the surface of your boat/car/RV.

Glidecoat X-Salt is fast-acting, non-hazardous and safe to use on all metals, gel coat, painted surfaces, fiberglass, rubber, chrome, glass, plastic and most any surface exposed to salt. X-Salt is also safe for use on surfaces previously coated with Glidecoat Ceramic Coatings or Shine & Shield.

Glidecoat X-Salt can be used as a standalone product or combined with Glidecoat Nano Wash for extra cleaning power In addition to removing salt, X-Salt also protects against future salt build-up and hard water spots.

#### DIRECTIONS

- Spray directly onto dry surface. For light to moderate salt build-up, let X-Salt dwell for 3-5 minutes. For heavy salt build-up, let X-Salt dwell on the surface for 5-10 minutes.
- Do not leave X-Salt on the surface for more than ten minutes.
- Do not let X-Salt dry on the surface.
- After allowing X-Salt to dwell, rinse the surface thoroughly with water.
- Routine maintenance add 2-4oz of X-Salt to 2.5 gallons of water in your wash bucket with 2-4 oz of Glidecoat Nano Wash.
- Cars or RVs dilute X-Salt 10:1 with water. Spray X-Salt directly on surface of the vehicle or add X-Salt into your wash bucket with 2-4oz of Glidecoat Nano Wash.
- Repeat as necessary to remove all of the salt from the surface.



## **IRON REMOVER**

Typically your vehicle's exterior surface is contaminated with iron from rail dust, brake dust, air pollution and industrial fallout. To safely remove the iron, you need a paint decontamination spray.

Whether you are simply cleaning your car or prepping for Glidecoat's Auto 9H Ceramic Coating, it is important to remove all the contaminants from the surface. Glidecoat Iron Remover is the perfect solution.

Glidecoat's Iron Remover for cars dissolves and safely removes the ferrous metal iron contamination without damaging your car's exterior. Safe to use on all exterior painted surfaces, wheels, plastic and chrome. Simply spray onto the surface and the Iron Remover will turn red/purple which let's you know that iron is present and Glidecoat's Iron Off is working to remove iron particle contamination. The color change is caused by a chemical reaction between the iron and Glidecoat Iron Remover as the iron contaminants break down, loosen and dissolve. This is most easily seen on lighter color vehicles but decontamination performance is equal on all colors.

#### APPLICATION INSTRUCTIONS

- Wash and dry the vehicle surface to remove loose dirt and grime.
- Shake bottle well before using. Spray surface to be cleaned with Glidecoat Iron Remover and let dwell for 5-10 minutes. Do not let the Iron Remover dry. A light mist of water may be used to keep the surface wet.
- Agitate the surface with a soft wash mitt, towel or sponge dedicated for use with Glidecoat Iron Remover.
- Rinse decontaminated surface thoroughly with water to ensure all Iron Remover is rinsed away.
- Follow up with a thorough wash and proceed with other detailing steps such as clay, polish, and Glidecoat Auto 9H Ceramic Coating.



## NANO COMPOUND & HEAVY CUT COMPOUND

Glidecoat produces both a heavy and a medium grade compound. It combines the workability of polish with the cutting action of a compound. It has been formulated to restore luster and shine to damaged gel coat or paint by removing deep swirls, oxidization, most scratches and heavy watermarks.

Unlike many products out there these compounds contain no wax or silicone. They have been designed to work well with the complete line of Glidecoat products and provide the ultimate surface for the application of Glidecoat's Ceramic Coatings.

#### NOTE:

Heavy Cut Compound is approximately 600-800 grit whereas Nano Compound is approximately 1,200-1,500 grit.

- Provides uniform clean and glossy surface.
- Contains no wax or silicone.
- Nano active particles to help minimize surface heat during the compounding process.
- Removes major defects such as deep swirls, scratches, oxidization, chalking and watermarks.
- Stays wet longer allowing the applicator to use less and minimize cleanup.
- Works with the family of Glidecoat products.





## NANO POLISH

Glidecoat Nano Polish offers a fast, easily achievable, perfect finish, using fewer products, and fewer stages than traditional polishing systems, on both fiberglass and marine paint. Glidecoat Nano Polish provides both a deep cleaning action, as well as polishing in one easy application. Only damaged fiberglass or paint molecules are removed by the polish as not to compromise the durability of a surface's finish, as harsh polishing compounds do.

- One product does the work of two cleans and polishes.
- Contains no wax or silicone.
- Smaller active particles help minimize surface heat during the polishing process.
- More active particles allow the polish to work faster.
- Unlike other competitive products, Nano Polish doesn't contain any fillers.
- Can be used on freshly painted surfaces after wet/dry sanding 1500-2000 grit.
- Designed to work with Glidecoat Nano Compound.
- The ideal product when applying Glidecoat Ceramic Coatings and Marine Shine & Shield.





## NANO WASH

Nano Wash has been formulated specifically for Marine and compliments Glidecoat's Ceramic Coating products. The product produces high foam content which breaks the bond between the dirt film and your boat's gel coat or paintwork and lubricates dirt particles minimizing surface abrasion which happens with most other boat soaps on the market. Used in conjunction with Shine & Shield or Glidecoat's Ceramic Coatings, Nano Wash will ensure maximum gloss retention through reduced micro-scratching during the wash process.

- Minimal abrasion, unlike other soaps.
- High foam content to break the bond between dirt, salt, and boat surface.
- Only requires two capfuls per five gallons of water.
- Designed to work with Glidecoat's Ceramic Coatings and Shine & Shield to help maximize surface coating life.
- Provides maximum gloss and shine.
- PH neutral.





## **HEAVY DUTY CLEANER**

Glidecoat's Heavy Duty Cleaner is our most aggresive cleaner. Paintwork and gel coat safe, the cleaner works instantly to remove even the toughest stains and contaminants. Removes wax, polishing oils, buffing residue, mold, mildew, dissolves dirt & grime, and removes tree sap safely and effectively.

Heavy Duty Cleaner is intended for use during surface preparation, but should not be used after ceramic coating is applied.

#### APPLICATION INSTRUCTIONS

- Spray Glidecoat Heavy Duty Cleaner directly onto the surface. The cleaner starts to eat away the surface stains instantly.
- Use a brush with Nano Wash to agitate the surface and remove all of the stains and contaminants.
- Spray with water to rinse away Heavy Duty Cleaner and Nano Wash from the surface.

## COMPETITION

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Countless companies currently offer ceramic coatings, although the number that actually manufactures coatings is small on a global basis. Most companies use a white label service, where the same manufacturer produces the product for many companies and provides private labeling. This process is prevalent for products manufactured in China.

The critical differences between Glidecoat and some of the competitors listed below are:

- **Self-Leveling:** The product automatically self-levels whereas others can be a challenge to apply and create a level finish.
- **Cure Time:** Glidecoat Pro Marine Ceramic cures in 12-15 hours versus up to 72 hours with others.
- Pricing: Glidecoat has been priced to be competitive and in many cases significantly more economical than the competition, making the upsell to ceramics easier.
- **Re-application:** No re-application necessary after 6-12 months. Many products use a refresh or reload product to re-apply gloss after a period to reinforce the coating.
- Warranty: 18 Months for Pro Marine; 2 years for Pro RV and Pro Aviation; 3 years for Auto 9H. Must be installed by a Glidecoat Certified Pro for the warranty to apply. Simple warranty conditions, tied to gloss meter readings.
- **Temperature:** Can be applied in a broader range of temperatures from 45-110°F.
- **Easy re-application:** No wet sanding or full removal. Simply a light polish and re-apply.
- Made in the USA: Manufactured here in the US by our custom manufacturer in Cleveland, Ohio.

Some of the key competitors are listed on the following pages. All of these companies produce or custom manufacture their products, as does Glidecoat.

## CARPRO

Headquarters Location: Level 1, Suite 5, Tower Business Center, Swatar, Birkirkraka, BKR4013, MALTA

**Factory:** CARPRO KOREA INDUSTRIES 244-1, Gagokdong, Suncheon, Jeonnam, KOREA –540-080

**Background:** CarPro was established in 2009 by people who love their cars with a mission to make exceptional detailing products available to enthusiasts. Their vision and advanced technology brought coatings like CQuartz to the market when they were still unknown to the Western Hemisphere. CarPro was the original creator of Nanotechnology car detailing products and continues to bring new professional car detailing products and fresh ideas to the masses. From interior coatings and cleaners to their most well-known ceramic paint coating, CQuartz, has something for every car care need. Your car deserves the ultimate protection and they offer the products that deliver professional results.

**Types of Products:** Range of ceramic coatings specifically for automotive to be applied to alloy wheels, faded plastic, rubber trim, leather, windshield and a professional-grade version. Offer ceramic coatings as an up-sell as well as topcoats to any of their coatings Offer a full range of preparation, on-going maintenance products such as compounds, finishing products, spray polymers, pads, microfibers, etc.

Target Market: Automotive Industry.

**Shortcomings:** Solely dedicated to the Automotive Industry, which limits their ability for growth opportunities in the marine industry.

**Strengths:** Positions the company within the top 5 ceramic coating providers for the automotive industry including partnerships and distribution through autogeek.net. Due to their exposure in the automotive industry, consumers are starting to consider using their protective coatings on boats.



North and South America Headquarters Location: 5771 Copley Drive, Suite 102, San Diego CA 92117 USA

Factory: NanoShine Ltd. Taiwan

**Background:** The company has for years worked on industrial multifunctional protective coatings for all surfaces and strives to continuously improve their products. In 2010 Nanoshine Ltd introduced Ceramic Pro – a series of products for the automotive, air and marine markets suited for surfaces such as paint, glass, alloy, fabric, leather, plastic and rubber. What makes Ceramic Pro different is the cuttingedge technology based on ceramic molecular compounds (nanoceramics). All formulas include SiO2.

**Types of Products:** Automotive, Marine, Aviation, Industrial, PPF & Vinyl, Leather, Stone and Plastic

For the automotive industry, they offer three (3) main packages; gold (lifetime warranty), silver (5-year warranty) and the bronze package (2-year warranty). The range of products help protect the vehicles paint, windshield, plastic and wheels.

For the marine industry, Ceramic Pro has two primary products; Ceramic Pro Marine and Bravo. The Marine initially was released to the market as the one-stop-shop product that could be applied to the entire boat including the fiberglass, non-skid, vinyl, below the waterline, etc. The product included a 3-year warranty. However, due to the difficulty applying, extremely high cost to both the consumers and installers, and overall poor performance, a majority of the Ceramic Pro installers are moving away from this product.

The Bravo product is designed for the gel coat above the waterline, easier to apply and offers an 18-month warranty.

**Target Market:** The primary markets include Automotive, followed by Marine. Clearly though, they are known globally for their automotive products.

#### Shortcomings:

- Highest price in the market.
- To comply to their warranty, specifically for the Marine application, the consumer must return each year for a top coat. In essence, the 3-year warranty for the Marine product will only be covered for a year until they apply an additional coat.

- For an authorized installer to apply their coating on a boat, the consumer is anticipated to see prices of \$200
   \$275 per foot. Even more, substantial preparation work is required.
- The installer network presents a bidding war. We have heard instances that when a consumer registers on their website for an installer in the local network, several installers are notified and the customer is bombarded with contact us messages. And, what typically happens is the detailers forego the suggested pricing and drive down the price to close the business.
- The product is shipped from outside the US, so the North American installers must wait for the shipment and typically must place a \$2,000 order. This causes a problem for small end detailers, who typically sell oneoff jobs.
- No case studies are shown on the Ceramic Pro website regarding the performance of the coating over time.
- Difficulty to apply the marine product.
- 72 hours for the product to cure in the marine industry

   this requires the boat to be inactive during the
   timeframe and may incur additional costs if the boat is
   stored in a boatyard, marina, etc.

**Strengths:** The #1 ceramic coating company in the market for the Automotive and Marine industries. Ceramic Pro has established an effective installer program by encouraging detailers to visit their regional locations for a multi-day training session. From our discussions with certified Ceramic Pro installers, they must pay approximately \$400 for the training and place an opening order of approximately \$2,000.

One of their primary advertising methods is video creation. A leader within the industry for video content.

How Glidecoat stands up to Ceramic Pro: Glidecoat has numerous advantages when compared to Ceramic Pro including the price (approximately 1/3 the price), easier and faster to apply, significantly reduced curing time (Glidecoat Pro Marine is 12-15 hours, whereas, Ceramic Pro is 72 hours), the curing time allows the boat owners to get their boat back faster and ready to be used, Glidecoat offers the ability for on-demand ordering by delivering the product within 24 hours if necessary and to their specific requirements, our warranty does not require any additional costs to comply to the warranty.



#### Product Line: Jade

#### US Location: Denver, CO

**About Puris:** Established in 1970 and with leading-edge expertise in compounds, polishes and detailing products, Puris has worked for decades to perfect their range of products. Their success is evidenced by their clients: Puris products are used by premier body shops, OEMs and technicians the world over.

**Target Market:** Automotive in the US and Europe.

**Shortcomings:** Their primary experience for decades has been developing detailing preparation products such as compounds, polishes, waxes, sealants, soaps, degreasers mainly for the automotive industry. As a result of the market changes, they have begun to roll out ceramic coatings, which, remain prevalent in the automotive sector.

Limited experience and knowledge within the marine industry specifically to application process.

#### **Application Shortcomings:**

- Must buy a minimum of 12 units.
- Must allow 48 hours curing time.
- Suggests a 9 x 9 sq. ft. working area yet only a 5-10 minute period for removing excess product.
- Lower recommended working conditions; 41-95°F.
- No underwater or other products available.
- No specialized products for vinyl, below the waterline, props and inflatables.
- Minimal support.

**Strengths:** 50+ products for the automotive industry from the sealants, waxes, polishes, compounds, etc. By partnering with B & B Blending, they offer their private label ceramic coating to a number of companies.



Product Line: Marine, Automotive, Home

Headquarters Location: Northamptonshire, UK

#### Factory: Taiwan

**About GTechniq:** GTechniq was founded by quantum physicist Drew Gill in 2001, out of total dissatisfaction with the performance of paint protection products at the time.

In 2012 the conscious decision was made to close the detailing side of the business and to concentrate solely on product development and manufacturing. To date, the GTechniq's product range includes composite ceramic coatings, leather protection, fabric protection, wheel and trim protection, shampoos and much more.

**Target Market:** The product line is offered in four (4) different markets; automotive, home, marine and aviation with accredited auto dealers across the world.

As with a common trend within the ceramic coatings market, Gtechniq's primary experience, knowledge and focus is within the automotive sector by tailoring their products for that purpose and application.

#### Shortcomings:

- Only 4 products for the marine industry, which claim to offer varying lengths of protection for the surface. Do not offer any other protection for the props, inflatables, below the waterline, etc.
- With their headquarters in the UK, they are not exposed to high working temperatures as found here in South Florida or even high humidity. This has a challenge for installers working in marine conditions in hightemperature environments.
- Lower end pricing this may be both a positive and a negative in the market as they are viewed as a cheaper ceramic coating alternative.

**Strengths:** With nearly 20 years of experience in the paint protection business and their extensive experience with detailing, they have a wealth of knowledge to relate to their potential dealers on best practices for automotive applications. This is apparent with the product as their primary focus is in the automotive industry.

How Glidecoat stands up to GTechniq: On the product side for the marine industry, Glidecoat offers a premium product regarding the durability, performance, application and wealth of knowledge from our first-hand experiences. This data is backed up by our laboratory testing which clearly shows Glidecoat's Pro Marine outlasts all our current competitors.

As with most of the listed competition, the majority of the marine installers are common users of their automotive products and simply make the switch over. Considering that advantage, they are more known in the ceramic coating space, than many others.

The combination of our products, the knowledge of which products work best, given the different environments and how best to apply those, gives Glidecoat a clear advantage in the market.



## MAINTENANCE GUIDE

Ceramic coatings are one of, if not the best product to protect and preserve the integrity of your surface, far superior to traditional wax and sealants (especially in the marine market). One of the most common misinterpretations of a ceramic coating is that they are almost maintenance free, or your boat will not get dirty if it has a ceramic coating. That is simply not the case.

While ceramic coatings are extremely durable, they require ongoing maintenance to ensure that you are getting the full benefits and protection out of your ceramic coating. With that being said, the main benefit of having a ceramic coating is that your ongoing maintenance is much easier and more effective (with less effort) than using a traditional wax or sealant.

In this guide we will explain how to properly maintain a ceramic coating on your boat to ensure you are getting the most out of your ceramic coating, and properly protect your investment.

#### **INITIAL APPLICATION MAINTENANCE**

After the application of our Marine or Pro Marine ceramic coating, it is important to let the coating fully cure before getting the boat wet or putting the boat back in the water. A full cure of our ceramic coatings is between 12-15 hours. If the boat gets wet or rained on during the curing process, dry the boat as soon as possible, and avoid leaving the boat to air dry to prevent potential water spots on the surface.

Allow a minimum of 24 hours before washing the boat to ensure the coating has fully cured.

#### **ONGOING MAINTENANCE**

After the coating has fully cured, we recommend the ongoing maintenance of rinsing (and drying) after every use, bi-weekly washes, and spot cleaning as needed.

Ongoing maintenance is an important factor in ensuring that you get the most benefits from your coating. If it is too dirty, this layer of contamination (salt, dirt, bird droppings, water spots) will diminish the stain resistance and hydrophobic properties, making your boat more difficult to clean, defeating the main purpose of a ceramic coating. Here are some general guidelines for ongoing maintenance of your ceramic coating:

- Rinse your boat after every use to remove contaminants from the surface. We highly recommend drying your boat after rinsing, and avoid letting you boat air dry, which may cause water spots. If your boat is on a lift and you cannot access the hull to dry, we recommend using a stream of water (not a spray nozzle) down the hull sides to remove contaminants while not leaving excess water on the surface that could cause water spots.
- Bi-weekly washes (every two weeks) with Glidecoat Nano Wash or Glidecoat Ceraglo. Avoid using high pH soaps such as Dawn dish soap, or soaps that contain heavy cleaners of degreasers. These soaps won't harm the coating after a few uses, but continual use of aggressive soaps and cleaners will expediate the wear of the top layer of coating. This will diminish and reduce the protective qualities of the ceramic coating, as well as reduce the longevity of the coating. Glidecoat Ceraglo is the perfect after care soap for you ceramic coating. Ceraglo is a polymer infused soap designed to increase the gloss of the surface while leaving a layer of protection on top of the ceramic coating to promote the longevity.
- Avoid using stiff bristled brushes or abrasive washing tools.
- Use a microfiber wash mitt or a soft bristled brush when washing.
- Dry the boat with a microfiber drying cloth or a clean chamois.

#### SPOT CLEANING MAINTENANCE

In between your bi-weekly washes you may need to do some spot cleaning. Whether it's salt build up on the hull, water spots from the rain, or bird droppings, we recommend cleaning them as you see them to make your ongoing maintenance that much easier. Here are some general guidelines for spot cleaning:

- For excess salt buildup on your hull we recommend using Glidecoat X-Salt to safely remove the salt without harming the ceramic coating. Simply spray X-Salt on the surface, allow it to dwell for 5-10 minutes, then rinse it off. X-Salt can also be added to your wash bucket with Glidecoat Nano Wash or Glidecoat Ceraglo to help remove stubborn salt buildup while you wash.
- If you are in an area without salt water and/or are having issues with hard water spots we recommend using Glidecoat WaterSpot Remover to safely remove hard water spots without harming the ceramic coating. Simply spray Glidecoat WaterSpot Remover onto the surface, wipe it in with a microfiber cloth, allow it to dwell for 2-3 minutes then wipe it off with a clean microfiber cloth.
- When spot cleaning bird droppings or small stains we recommend using a waterless wash of Glidecoat Surface wipe with a microfiber cloth. Avoid using excessive force when removing stains.

#### QUARTERLY MAINTENANCE

In addition to ongoing maintenance and spot cleaning, ceramic coatings benefit from a maintenance spray every 3-4 months, such as Glidecoat's Marine Shine and Shield. Marine Shine and Shield will enhance the shine and hydrophobic effect of the surface, while adding an additional layer of protection on top of the ceramic coating to promote longevity.

Marine Shine and Shield is a simple spray on, wipe off application.

Here are some general guidelines for applying Marine Shine and Shield for quarterly maintenance:

- Shine and Shield can be applied as needed to add gloss and water beading to the surface.
- Do not apply Shine and Shield to a dirty surface, always clean/wash the area first before applying.
- Shine and Shield can be applied to a wet surface, allowing you to dry the surface while leaving some protection behind.

- We recommend using two microfibers when applying Shine and Shield, using the first microfiber to buff the surface while using a second clean microfiber to ensure the surface is smooth and uniform.
- Shine and Shield can be layered with multiple coats for enhanced protection, allow a minimum of 30 minutes between each coat.

#### **ANNUAL MAINTENANCE**

If you had your ceramic coating professionally applied by a Certified Glidecoat Pro Applicator it is recommended that you have the coating inspected after 1 year.

An annual coating inspection typically consists of a decontamination wash with Glidecoat Iron Remover to remove contamination from the surface that could be impacting the hydrophobic properties of the ceramic coating. After the Iron Remover, the boat will be washed with Glidecoat Nano Wash or Glidecoat Ceraglo. Then a close inspection of the coated surfaces is conducted to ensure that the ceramic coating is holding up as expected.

If any of the high sun exposed areas have significantly diminished in gloss (determined by the gloss meter) it may require a light polish to restore the shine and have one additional coat of the ceramic coating applied. Otherwise, an application of Marine Shine and Shield will be applied to all coated areas.

If a Certified Glidecoat Pro installed your ceramic coating, you may want to ask them about scheduling an annual, quarterly or ongoing maintenance service.

#### **GLOSSMETER AND WARRANTY**



#### What is a Gloss Meter?

A gloss meter is a measuring device for the determination of gloss on different materials. During measurement, the gloss meter emits a light, which reflects off the surface. Depending on the level of gloss, the surface absorbs some of the light and reflects the rest. The gloss meter measures the reflected light, calculates the degree of gloss, and displays it clearly on the screen.

Gloss meters are commonly used in manufacturing as a quality control measure to ensure that individual products have the same appearance. In this way, complaints and associated costs are avoided. In addition, the external reputation of companies with consistent quality and consistent products is respected or improved.

#### Why Glidecoat Offers a Gloss Meter?

Since 2015, the Glidecoat Certified Pro Network has applied our coatings to a wide variety of boats, from a 14' Bass Tracker to 100'+ Mega Yachts. In the early stages of developing our ceramic coating, our customers wanted to measure and validate the effectiveness of the coating.

For most ceramic coating companies, the typical response is to use qualitative measures, such as, check the water beading or sheeting (dependent on the type of ceramic coating) and the shine levels. Both are valid and easily identifiable points; however, everyone will have different expectations and views on the product's performance. We wanted a better system to reassure customers and provide actual data that would eliminate personal interpretations.

After thorough research, we discovered that using a gloss meter would provide a numerical representation of the surface shine levels. We continued to go a step further by utilizing the gloss meter to reinforce our product warranty.

#### **Gloss Meters in the Proposal Process and Initial Inspection**

An unexpected benefit of using the gloss meter has been to help simplify the proposal process with new clients and our Certified Pros. We highly recommend inspecting the boat to provide an accurate quote. As part of the inspection, the Certified Pro will take numerous gloss meter readings across the entire boat to give a snapshot of the boat's starting condition.

During an initial conversation with a boat owner who is evaluating a marine ceramic coating application, the topic of pricing will typically come up early in the conversation. Because the majority of time is spent preparing the surface for the coating, boats with extremely low initial gloss meter readings and severe oxidization will pay a higher rate per foot than a factory new boat with minimal to no oxidization present on the surface.

Having accurate measurements at this stage drastically improves the accuracy of quotes and helps gauge the necessary level of restoration before applying the ceramic coating.

GLOSS METER READING	LEVEL OF OXIDIZATION	ESTIMATED RESTORATION STEPS
1 – 15	Severe	4+ buffing steps
16 – 30	Heavy	3 – 4+ buffing steps
31 – 50	Medium	2 – 3 buffing steps
51 – 70	Light	1 – 2 buffing steps
71+	Minimal to no oxidization	1 buffing step

#### **Gloss Meter Readings and Level of Preparation**

After completing over 1000's of ceramic coating applications through our Certified Pro Network, we notice a consistent trend in the level of preparation required based on the varying gloss meter readings.

Above is a helpful chart that demonstrates the typical level of preparation required based on the various gloss meter readings.

#### Additional Notes:

- Factory new gel coat will typically read between 82 88 on the gloss meter.
- Painted surfaces usually register 3 5% higher than gel coat.
- The gloss meter is utilized by a number of different industries to check the gloss of the surface. The reader can register numbers as high as 200. 200 gloss meter readings are more applicable to glossy printer paper. Whereas, in the marine industry, we noticed the typical numbers will go as low as 1–2 GU and as high 105 GU.

#### **Glidecoat Pro Warranty**

Following the application of a surface coating, the Certified Pro will take multiple gloss meter readings across the entire boat. Routinely, these final gloss meter readings show shine levels that are back to or better than factory new. Because we have these final gloss meter results, we can provide a product warranty that guarantees gloss meter readings will not decrease by more than 40% in the 18 months following application. Please note, the gloss meter readings will be highly dependent on boat usage, maintenance, as well as other factors. Follow these steps before, during, and after Glidecoat's Ceramic Coating Application:

- Measure and record gloss meter readings across the entire boat, before beginning any preparation steps:
  - a. Transom
  - b. Starboard Side Hull, bow and stern
  - c. Port Side Hull, bow and stern
  - d. Topside brow (if applicable)
  - e. Gunwales
  - f. Center Console (if applicable)
- Measure gloss meter readings during surface preparation to ensure the surface has been adequately restored prior to applying Glidecoat's Nano Ceramic Coating.
- Measure and record gloss meter readings across the entire boat after application, allowing the coating to cure. Measuring the same areas as before surface restoration.
  - a. Transom
  - b. Starboard Side Hull, bow and stern
  - c. Port Side Hull, bow and stern
  - d. Topside brow (if applicable)
  - e. Gunwales
  - f. Center Console (if applicable)



## **FREQUENTLY ASKED QUESTIONS**

#### Q. What Is A Ceramic Coating?

Ceramic Coatings are a liquid polymer coating that is applied by hand. It is applied in liquid form, allowing the coating to fill in microscopic pores on the surface. After curing, the coating bonds with the surface, creating a hard, semi-permanent barrier. Ceramic coatings provide extreme gloss to the surface, giving a glass-like look. They also create a hydrophobic surface, preventing salt and other contaminants to penetrate the pores, making maintenance extremely easy while also preventing oxidization.

## Q. What is the difference between Glidecoat's Ceramic Coating and Wax?

Glidecoat's Ceramic Coating is designed to fill in the pores of gel coat or paint, bonding with the surface to create a hard barrier. Glidecoat Ceramic Coating enhances the gloss of the surface, while also providing protection 4 to 5 times longer than wax. On the other hand, when wax is applied, it simply sits on top of the surface, which only provides short term protection. After the wax is applied, each time the boat is washed, the wax begins to deteriorate and come off the surface.

## Q. What separates Glidecoat's Ceramic Coating from other nano-coating products in the market?

Glidecoat's Ceramic Coating has been specifically designed for the marine industry, developed to withstand the harsh marine environment. Many other ceramic coatings were originally developed for the automotive industry, then taking the same product and selling it in the marine industry, thus making them not as effective or as durable. Unlike other ceramic coatings, Glidecoat's Ceramic Coating does not need to be removed before reapplication, you can layer our product, which provides even more protection. Glidecoat's Ceramic Coating is a very versatile product. It can be applied to new boats to enhance the gloss and shine of the factory finish, restore the shine of faded hulls, or even be applied on stainless steel or aluminum surfaces. In comparison to other ceramic coatings on the market, Glidecoat's Ceramic Coatings are cost-effective because we manufacture our own coating, and it is made in the US.

#### **Q. Are Ceramic Coatings Permanent?**

Nothing is permanent. Ceramic coatings come off through abrasion. Coatings developed for marine will typically last 18-24 months before re-applying. Coatings for the Auto market will typically last 3-5 years, but there is a big difference between painted aluminum and gel coat.

Obviously, the life expectancy of a ceramic coating is based on a lot of factors, including storage, seasonal or year-round exposure to UV, in water, trailered, on a lift, and climate to name a few. Most though, in southern states like Florida, will last 18-24 months whereas up north 3-4 seasons.

#### Q. Will my boat look brand new again?

Unfortunately, ceramic coatings are not a miracle coating. With the right preparation though the boat will look new or as close to new as you can get given the age and condition of the gel coat. On new boats, you will get a 10-15% bump in the gloss and shine from factory new gel coat. On older boats, we have seen readings on a gloss meter (it measures shine by reflecting light off the surface) go from single digits to north of 90, which is substantial.

## Q. Do I need to remove oxidization before applying Glidecoat Ceramic Coatings?

Yes. Surface preparation is the most important step prior to applying Glidecoat's Ceramic Coatings. The coatings have been designed to enhance and protect the current condition of the surface. If applied over watermarks or oxidization, it will lock in these imperfections and make them harder to remove. It is very important to restore the surface, removing any surface imperfections before applying Glidecoat's Ceramic Coatings.

#### Q. Will a ceramic coating eliminate water spots?

A normal drop of water contains a certain amount of dirt or minerals. When water evaporates on your boat's surface, the minerals are left behind, creating visible spots. Detailers and consumers may assume that the hydrophobic quality of a Ceramic Coating will eliminate water spotting, since water slides of the coated surface. While it is true that some water will be repelled from the hydrophobic surface, other water droplets will bead and remain on the vessel, creating the opportunity for water spotting.

As long as the boat is rinsed with clean water and wiped down, with a chamois, spots will be eliminated.



#### Q. How long does Glidecoat's Ceramic Coating last?

After extensive laboratory and field testing, Glidecoat's Ceramic Coating provides protection for a minimum of 18 months for marine usage, a minimum of 2 years for RV and Aviation, and a minimum of 3 years for Auto, backed by our warranty. With the use of Glidecoat Shine & Shield every 2 months, you can increase the life span of Glidecoat's Ceramic Coating.

## Q. How can I tell the boat is ready to be reapplied with Glidecoat's Ceramic Coating?

You can tell the boat is ready to be reapplied with Glidecoat's Ceramic Coating based on how the water reacts on the surface. Once the water stops beading up on the surface, it is time to reapply. Also, if the surface begins to lose the gloss and shine, this is an indication that Glidecoat's Ceramic Coating needs to be reapplied.

#### Q. Do ceramic coatings peel off?

True ceramic coatings will fill the pores on the surface, however small, and then bond directly to the surface making it hydrophobic. It does not peel and is only removed through abrasion.

## Q. How can I tell Glidecoat's Ceramic Coating is properly applied?

Once Glidecoat's Ceramic Coating is applied, there will be a noticeable difference in the shine of the surface. After application, the surface should appear to be uniform and feel smooth to touch. If certain areas are not as shiny, apply an additional coat to ensure the surface is uniform. After the coating has cured (12-15 hours), a great way to test the surface is to spray the coated area with water. If the product has been applied properly, the water will bead up on the surface. For the best results, we recommend applying a minimum of two coats.

## Q. What are the best conditions to apply Glidecoat's Ceramic Coating?

For best results, we recommend applying Glidecoat's Ceramic Coating in temperatures ranging from 50°F-90°F. This temperature range allows for the easiest application. If you are working in direct sunlight with temperatures exceeding 90°F, apply the ceramic coating in small 2' sections at a time. The hotter the surface, the quicker Glidecoat's Ceramic Coating flashes. To ensure the surface is uniform, you must buff the coated area with a microfiber towel immediately after applying the coating. Do not apply Glidecoat's Ceramic Coating in the rain. It will decrease the effectiveness of the product.

#### Q. What is the process for reapplication?

Unlike other ceramic coating products, Glidecoat's Ceramic Coating does not need to be removed before reapplication. When reapplying Glidecoat's Ceramic Coating you will follow these steps:

- 1. Wash boat with Glidecoat Nano Wash.
- Use dual action buffer or rotary buffer to apply Glidecoat Nano Polish.
- 3. Decontaminate surface with Glidecoat Surface Wipe.
- 4. Reapply Glidecoat's Ceramic Coating.

In most cases, Glidecoat Nano Compound is not required in the reapplication of the coating because the surface will not be heavily oxidized.

## Q. Recommended maintenance plan for the boat after applying the Glidecoat's Ceramic Coating?

Glidecoat's Ceramic Coating greatly reduces the time and effort required to maintain your boat. Rinse your boat after each use, this will remove any saltwater or scum build up (It is highly recommended to dry or chamois the boat after rinsing to avoid water spots). We recommend washing the boat with Glidecoat's Nano Wash or Ceraglo and a soft-bristled brush bi-weekly, easily removing surface stains. To increase the life of Glidecoat's Ceramic Coating, we recommend the use of Shine & Shield every 3-4 months to further enhance the gloss.

#### Q. What is the difference between Glidecoat Ceramic Coating and spray-on products like F11, Produxa and Puris A70?

It is becoming more popular through social media, YouTube and online marketing to see a significant increase in products claiming a spray-on ceramic coating, such as products like F11, Produxa and Puris A70. An unfortunate fact in the ceramic coating market is the term 'ceramic coating' is not regulated and causes confusion for the end-user to understand the difference between the products.

These listed products are consumer grade and designed to last only a few months and provide better protection than traditional wax. Whereas, Glidecoat Ceramic Coating is:

- 9H hardness.
- 18-month longevity here in South Florida.
- Glass-like finish to the surface.
- Significantly high percentage of the key ingredient of SiO2.

#### Q. How does Glidecoat Pro Marine Ceramic Coating compare to other competitors in the market like Ceramic Pro, Jade and Gtechniq?

Approximately 95% of all ceramic coating manufacturers started and focus their attention on the automotive industry. Applying a ceramic coating to painted aluminum is vastly different than gel coat and painted hulls. As a result, a vast majority of the current ceramic coating manufacturers are utilizing their automotive products and labeling for marine use.

Whereas, with Glidecoat, our product has been developed specifically for marine use, which, our formulation includes double the amount of solids to combat the harsh marine conditions.

The advantages of Glidecoat Ceramic Coatings vs our competitors include:

- Price: Cost-effective pricing with USA manufacturing and distribution.
- Warranty: 18-month warranty with minimal maintenance (rinse after each use, monthly wash & use of our Marine Shine & Shield).
- **Faster cure time:** 12-15 hours to allow the customer to use the boat the next day.
- **Ease of application:** with the self-leveling properties with the Glidecoat Ceramic Coating, the procedure is an easy wipe on and wipe off.
- **Flexibility to touch up areas:** another advantage to selfleveling is the ability to touch up specific areas and the coating will level to provide a consistent look.
- Optimized for hot and humid conditions: the coating can be applied outdoors and in temperates as high as 110°F.
- **Ease of reapplication:** The reapplication can be 50-60% shorter than the initial application as the process includes just bringing back the shine on the surface, then reapplying two coats.
- **Speed:** The second coat can be applied after an hour to speed up the process.

#### 8

## **CERAMIC COATINGS SHELF-LIFE GUIDE**

PRODUCT	SHELF-LIFE UNOPENED	SHELF-LIFE ONCE OPENED	TIPS/STORAGE RECOMMENDATIONS
Pro Marine Ceramic Coating (Original Formula)	1 Year	Once mixed the Pro Marine has about a 5-7 day shelf life if left at room temp.	Once mixed, store the Pro Marine in a freezer to extend the shelf-life to about 1-2 months.
Pro Marine Ceramic Coating (New Formula)	1 Year	Once mixed the Pro Marine – New Formula has about a 5-7 day shelf life if left at room temp.	Once mixed, store the Pro Marine – New Formula in a freezer to extend the shelf-life to about 2-3 months.
Marine Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Pro RV Ceramic Coating	1 Year	Once mixed the Pro RV has about a 5-7 day shelf life if left at room temp.	Once mixed, store the Pro RV in a freezer to extend the shelf-life to about 2-3 months.
RV Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Pro Aviation Ceramic Coating	1 Year	Once mixed the Pro Aviation has about a 5-7 day shelf life if left at room temp.	Once mixed, store the Pro Aviation in a freezer to extend the shelf-life to about 2-3 months.
Aviation Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Auto 9H Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Trim Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Prop Optimizer	1 Year	Once mixed the Prop Optimizer has about a 5-7 day shelf life if left at room temp.	Once mixed, store the Prop Optimizer in a freezer to extend the shelf-life to about 1 month.
Underwater Anti-Microbial	1 Year	Once mixed the Underwater Anti Microbial has about a 5-7 day shelf life if left at room temp.	Once mixed, store the Underwater Anti Microbial in a freezer to extend the shelf-life to about 1 month.
Pontoon Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Glass Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Repellent Protective Layer (RPL)	1 Year	6 Months	Store in a cool, dry place
Inflatable Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Vinyl Ceramic Coating	1 Year	6 Months	Store in a cool, dry place
Marine Shine & Shield 2.0 Ceramic Spray	2 Years	1 Year	Store in a cool, dry place
RV Shine & Shield 2.0 Ceramic Spray	2 Years	1 Year	Store in a cool, dry place
Auto Shine & Shield 2.0 Ceramic Spray	2 Years	1 Year	Store in a cool, dry place
Hydrophobic Spray & Rinse	2 Years	1 Year	Store in a cool, dry place

#### 8

## **CERAMIC COATINGS COVERAGE CHART**

PRODUCT	SQFT / ML	50ML	120ML	160ML	250ML	1L
Pro Marine Ceramic Coating (New Formula)	1.2-1.5 SQFT (2 coats)	60-75 SQFT (2 coats)	144-180 SQFT (2 coats)	N/A	300-375 SQFT (2 coats)	1,200-1,500 SQFT (2 coats)
Pro Marine Ceramic Coating (Original Formula)	1 SQFT (2 coats)	50 SQFT (2 coats)	120 SQFT (2 coats)	N/A	250 SQFT (2 coats)	1,000 SQFT (2 coats)
Marine Ceramic Coating	1.2 SQFT (2 coats)	60 SQFT (2 coats)	144 SQFT (2 coats)	192 SQFT (2 coats)	300 SQFT (2 coats)	1,200 SQFT (2 coats)
Pro RV Ceramic Coating	1.2-1.5 SQFT (2 coats)	60-75 SQFT (2 coats)	144-180 SQFT (2 coats)	N/A	300-375 SQFT (2 coats)	1,200-1,500 SQFT (2 coats)
RV Ceramic Coating	1.2 SQFT (2 coats)	60 SQFT (2 coats)	144 SQFT (2 coats)	192 SQFT (2 coats)	300 SQFT (2 coats)	1,200 SQFT (2 coats)
Pro Aviation Ceramic Coating	1.2-1.5 SQFT (2 coats)	60-75 SQFT (2 coats)	144-180 SQFT (2 coats)	N/A	300-375 SQFT (2 coats)	1,200-1,500 SQFT (2 coats)
Aviation Ceramic Coating	1.2 SQFT (2 coats)	60 SQFT (2 coats)	144 SQFT (2 coats)	192 SQFT (2 coats)	300 SQFT (2 coats)	1,200 SQFT (2 coats)
Auto 9H	N/A	Standard sized cars and small SUV's. Full sized pickups or large SUV's will require 100ml.	N/A	N/A	N/A	N/A
Trim Ceramic Coating	N/A	2-3 vehicles (based on the amount of trim)	N/A	N/A	N/A	N/A
Vinyl Ceramic Coating	1 SQFT (2 coats)	50 SQFT (2 coats)	120 SQFT (2 coats)	N/A	250 SQFT (2 coats)	1,000 SQFT (2 coats)
Pontoon Ceramic Coating	1.2 SQFT (2 coats)	N/A	144 SQFT (2 coats)	N/A	300 SQFT (2 coats)	1,200 SQFT (2 coats)
Inflatable Ceramic Coating	1.2 SQFT (2 coats)	60 SQFT (2 coats)	144 SQFT (2 coats)	N/A	300 SQFT (2 coats)	1,200 SQFT (2 coats)
Glass Ceramic Coating	1.5 SQFT (2 coats)	75 SQFT (2 coats)	180 SQFT (2 coats)	N/A	375 SQFT (2 coats)	N/A
RPL	2 SQFT (only 1 coat required)	100 SQFT (1 coat)	240 SQFT (1 coat)	N/A	500 SQFT (1 coat)	2,000 SQFT (1 coat)

PRODUCT	8 OZ BOTTLE	16 OZ BOTTLE	1 GALLON
Marine Shine & Shield 2.0 Ceramic Spray	N/A	450 - 500 SQFT (2 coats)	3,600 - 4,000 SQFT (2 coats)
RV Shine & Shield 2.0 Ceramic Spray	N/A	450 - 500 SQFT (2 coats)	3,600 - 4,000 SQFT (2 coats)
Auto Shine & Shield 2.0 Ceramic Spray	225 - 250 SQFT (2 coats)	450 - 500 SQFT (2 coats)	3,600 - 4,000 SQFT (2 coats)



The following can be used as a general guide for the coverage of the Hydrophobic Spray & Rinse. Please note that these are guidelines only. The surface area of vehicles, boats, RV's and planes may vary. To get the most coverage out of your application, please follow the application instructions and tips and tricks.

HYDROPHOBIC SPRAY & RINSE	COVERAGE (1 coat)	REAL-WORLD EQUIVALENT
32 OZ - 1 Bottle	400 - 500 SQFT	<ul> <li>2 standard sized 4-door sedan vehicles</li> <li>24ft boat</li> <li>20ft RV/5th wheel</li> <li>4-5 motorcycles</li> <li>20ft airplane</li> </ul>
32 OZ - 2 Bottles	800 - 1,000 SQFT	<ul> <li>4 standard sized 4-door sedan vehicles</li> <li>34ft boat</li> <li>30ft RV/5th wheel</li> <li>8-10 motorcycles</li> <li>30ft airplane</li> </ul>
32 OZ - 3 Bottles	1,200 - 1,500 SQFT	<ul> <li>6 standard sized 4-door sedan vehicles</li> <li>44ft boat</li> <li>40ft RV/5th wheel</li> <li>12-15 motorcycles</li> <li>40ft airplane</li> </ul>
1 Gallon	1,600 - 2,000 SQFT	Any boat above 50ft or RV/5th wheel above 45ft will require at least 1 gallon of Hydrophobic Spray & Rinse to cover the entire vessel or vehicle.

## EVERYTHING YOU NEED TO KNOW ABOUT CERAMIC COATINGS AND SPRAYS. **PERIOD.**

#### **CHRISTIAN WESTHORPE**

TECHNICAL LEAD AND PRO SUPPORT MANAGER

With the increased popularity of ceramic coatings in the Marine, Automotive and RV (Recreational Vehicle) markets, it has become even more difficult for the consumer to determine which brand or product is best for them.

Ceramic is the buzzword used for a variety of products at a wide range of price points. These types of products include ceramic soaps, ceramic sprays, ceramic waxes and ceramic coatings. With all of the fancy marketing and the constant use of the word "ceramic" it is hard to figure out the difference between these products.

Unlike the food industry where the USDA regulates the use of the word "organic," there is no regulation on the word "ceramic" in the protective coating industry. This leads to a very liberal use of the word, which makes it extremely confusing for the consumer. What makes a product a ceramic is the use of silicon-based polymers such as SiO<sup>2</sup> (silicon dioxide), silsesquioxane, silica, or PDMS (polydimethylsiloxane) to name a few. A product only needs to contain .01% of one of these silicon-based polymers to be considered a "ceramic".

To help solve this dilemma we want to discuss the key differences between a "ceramic" spray and a true ceramic coating. These differences include:

- Percentage of Active Ingredient
- Formulation
- Price
- Durability/Protection
- Gloss & Hydrophobic Qualities
- Application



## PERCENTAGE OF ACTIVE INGREDIENT

The first key difference between a "ceramic" spray and a ceramic coating is the percentage of silicon-based polymers (active ingredient) in the formulation. The active ingredient is the workhorse in a product that provides gloss, protection and hydrophobics. Most "ceramic" spray products on the market contain between 1%-13% of the active ingredient, whereas ceramic coatings contain 20-65%. This depends on the brand and type of coating. Generally automotive coatings will be on the lower end of this scale whereas marine and RV will be higher.

#### FORMULATION

The second key difference is the formulation used for a "ceramic" spray compared to a ceramic coating. Most, if not all, "ceramic" sprays are water-based formulas. These formulas generally consist of a small amount of the active ingredient, coupling agents, and water. Water will typically make up 70% or more of a "ceramic" spray formula.

Ceramic coatings are solvent-based formulas with high quality catalysts. The solvents in a ceramic coating play a very important role. Solvents help keep the high percentage of the active ingredient in a liquid state, allowing you to apply the coating to the surface and buff it off with relative ease. Without these solvents, applying a ceramic coating would be nearly impossible, like trying to apply glue or molasses to paint or gel coat. Once the coating has been applied, the catalysts take over. These catalysts help expedite the curing process of the active ingredient, once exposed to oxygen. During this curing process the ceramic coating transforms from a liquid state into a solid, bonding directly to the surface it was applied.

Water based "ceramic" sprays do not achieve the same level of hardness or bonding with the surface.

#### PRICE

Now that we understand the differences in the percentage of active ingredient and the formulation, it's easy to see why the prices of these products varies so much. "Ceramic" spray prices range from \$15 on the low end to \$50 plus on the high end. These spray products usually come in 8oz or 16oz sizes.

Ceramic coatings have a wider range of price points and sizes, depending on the type of coating you are looking for (Auto, Marine, RV). The variety of sizes includes 30ml, 50ml, 100ml, 120ml, 160ml and 250ml. The 30ml and 50ml sizes are most common in the Automotive industry whereas the 160ml and 250ml sizes are most common in the Marine and RV industries. Auto ceramic coatings range in price from \$60-\$200, with the average price of approximately \$80-\$90 for consumer grade coatings. Marine and RV ceramic coatings have a wider range of prices given the variety of sizes. 50ml of Marine or RV coatings start at \$85 and go as high as \$150. 250ml of Marine or RV coatings start at \$295 and go as high as \$500 or more.

NOTE: These prices are sourced from reputable ceramic coating brands.

#### DURABILITY/ PROTECTION

In the same vein as price, the durability and level of protection have a direct correlation with the percentage of active ingredient and the formulation. In most cases, the higher percentage of active ingredient, the longer a coating or spray will last and the better the level of protection it will provide.

Water-based "ceramic" sprays will typically last and provide protection for 2-4 months (depending on location), whereas ceramic coatings will typically last between 1-3 years (without re-application) depending on the type of coating (Auto, Marine, RV).

Aside from the longevity, the level of protection varies between "ceramic" sprays and ceramic coatings. "Ceramic" sprays will provide similar protection to a ceramic coating, like UV protection, stain resistance, and ease of cleaning, just to a lesser degree. Because "ceramic" sprays are water based and not solvent based, they do not bond as well to the surface nor do they create a hard protective layer. These "ceramic" sprays will leave a softer layer of protection on top of the surface, which will slowly degrade over the course of a few months.

Ceramic coatings provide superior protection against UV damage, stains, oxidization, chemicals, salt, rust and hard water marks. Ceramic coatings also provide a surface that is much easier to clean, even compared to a "ceramic" spray. Ceramic coatings achieve a much higher level of protection because the coating bonds directly with the surface it is applied to, filling in to microscopic pores, and creating a hard protective layer on top of the surface. This hard protective layer is what allows a ceramic coating to last 1-3 years as opposed to 2-4 months.

## GLOSS & Hydrophobic Qualities

Gloss and hydrophobic qualities (water beading) are two of the most advertised properties in a ceramic product. People love to see their vehicle, boat or RV shine and watch the water beading on the surface. Both "ceramic" sprays and ceramic coatings provide a glossy and hydrophobic surface. Similar to the durability and protection, "ceramic" sprays will provide less gloss (3%-10% on the gloss meter) compared to a ceramic coating. The hydrophobic qualities will also diminish faster with a "ceramic" spray (within 1-4 months) compared to a ceramic coating (within 1-3 years). The hard protective layer of a ceramic coating adds a deeper level of gloss to the surface while greatly extending the hydrophobic qualities of the surface.

#### APPLICATION

The final difference between a "ceramic" spray and a ceramic coating is the application method and how quickly and easily it can be applied.

The biggest benefit to a water-based "ceramic" spray is the ease of application. These products are all spray-on and wipe-off applications that require less prep work before applying and a much faster application. Standard prep for a "ceramic" spray application is to wash the vehicle, boat or RV with soap and water, then apply the product to a clean, dry surface. Typically, this application will take about 30 minutes to an hour, depending on what you are applying it to. It is not required to remove surface imperfections, such as swirl marks and scratches for you to see the benefits of a "ceramic" spray, but for optimal results it is recommended.

Ceramic coating applications are much more labor intensive and require a greater level of prep to achieve optimal results. Since a ceramic coating is providing a hard protective layer on the surface, it is important to remove any surface imperfections before applying a ceramic coating. If you do not remove these imperfections before applying the coating, it will make these imperfections tougher to remove in the future. Surface imperfections may also affect the overall performance of the ceramic coating (durability, protection, gloss and hydrophobic qualities).

Standard prep for a ceramic coating application includes: Washing, clay bar (for vehicles), compounding and polishing the surface, decontaminating the surface with an alcohol based cleaner, then applying the ceramic coating (most ceramic coatings require or recommend two coats). While this process seems long and arduous, you are rewarded with an extremely glossy surface that is protected for years instead of months.

For a vehicle, a ceramic application will take approximately 3-6 hours depending on the amount of prep, whereas boats and RVs can take several days depending on the size and amount of prep required.

RESULTS				
	"CERAMIC" SPRAY	CERAMIC COATING		
Percentage of Active Ingredient	1-13%	20-65%		
Formulation	Water-based	Solvent-based		
Price	\$\$	\$ \$ \$ \$ \$		
Durability/Protection	★ ★ (2-4 months)	★ ★ ★ ★ ★ (1-3 years)		
Gloss & Hydrophobic Qualities	****	****		
Ease of Application	****	***		

We have gone into great detail about the key differences between a "ceramic" spray and a ceramic coating. Our goal is to better educate the consumer and help them make the best decision for their specific wants and needs.

If you are a person that loves to consistently take care of your vehicle, boat or RV, and prefer an easier application, than a "ceramic" spray is for you. If you are a person that wants the ultimate in surface protection, and is willing to put in the time and effort to achieve better and longer-lasting results, then a ceramic coating is the clear choice.