

NANO-CERAMIC®



WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS



Marine

What is NANO-CERAMIC Thin Film Coating?

NANO-CERAMIC Thin Film Coating is a revolutionary, ultra-durable thin film ceramic clear-coating that provides superior scratchresistance and semi-permanent protection for all exterior and interior yacht surfaces.



Jetpack
VideoPress

What makes NANO-CERAMIC Thin Film Coating so different?

NANO-CERAMIC Thin Film Coating is more than 4 times stronger than factory paint finishes and can absorb damage that would otherwise affect the appearance and integrity of your paint. This extremely durable ceramic coating reduces swirl marks and light scratches while protecting and preserving factory gelcoats or paints.



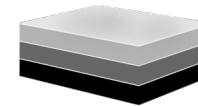
Conventional paints like acrylic urethane are simply not strong enough.

NANO-CERAMIC Thin Film Coating is completely resistant to acidic environmental substances like bird droppings, bug residue, acid rain, and tree sap, unlike your yachts factory paint, which can be permanently etched and damaged by these substances. NANO-CERAMIC provides advanced protective barriers to your yacht body and hull surfaces, maintaining both high-gloss and matte finishes.

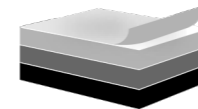
What are the benefits of applying NANO-CERAMIC Thin Film Coating?

NANO-CERAMIC Thin Film Coating provides yachts with a superior, near-permanent, clear coating that is resistant to chemical etching, harder than factory paint finishes, and able to greatly reduce swirl marks and fine scratches while leaving a superior, hydrophobic surface that is easier to clean and stays cleaner longer.

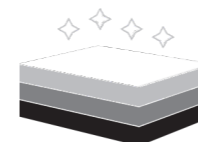
Clearcoat, Glass hull and body materials can be treated with one of our CERAMIC Thin Film Coatings. Restore the color and shine with advanced hydrophobic and UV protection. Even chrome, aluminum, and other metals can have added protection, as our coatings can withstand temperatures of over 1500°F



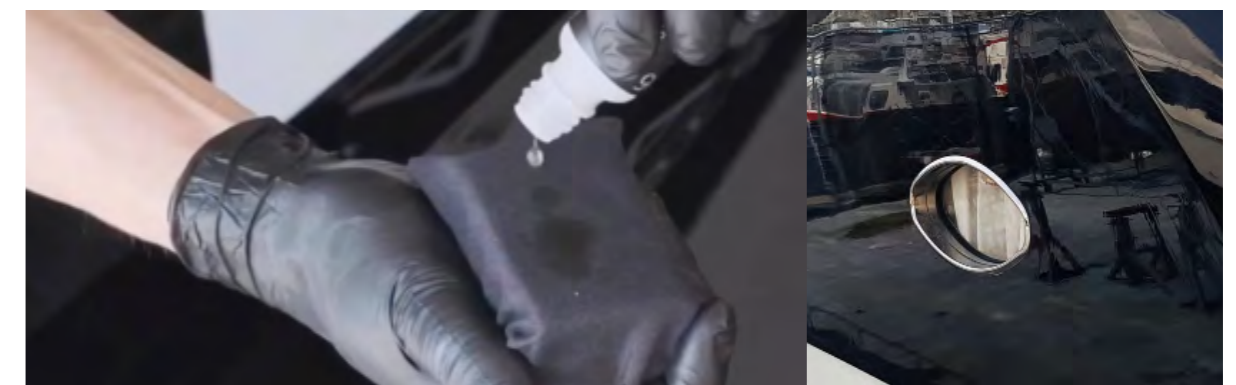
Step 1 The surface layer of factory gelcoat or paint is damaged and contaminated.



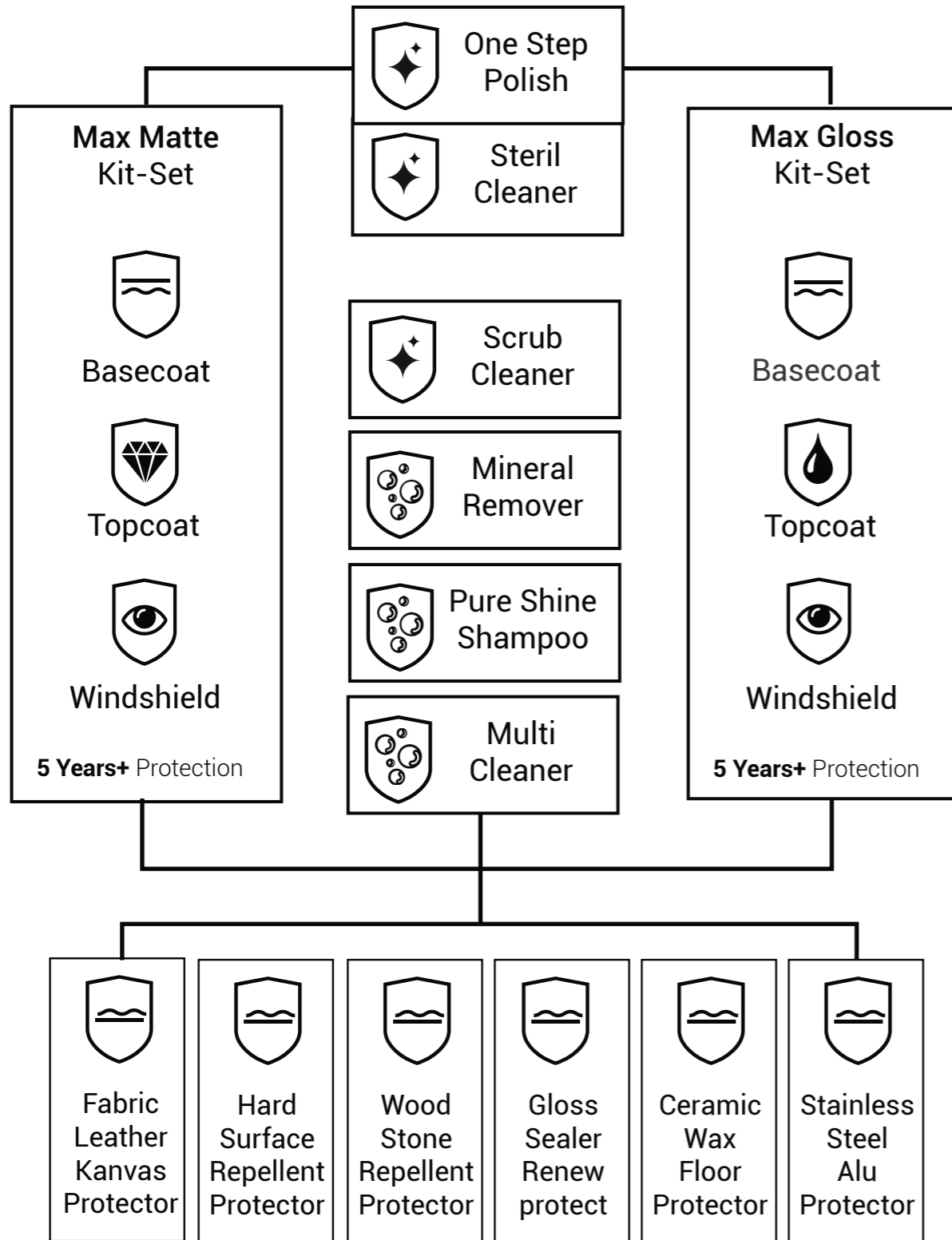
Step 2 Decontamination and polishing the gelcoat to produce a smooth and even surface.



Step 3 Restoration of coating thickness with a super-durable layer of NANO-CERAMIC Thin Film Coating.



Thin Film Clean & Protect



Every surface can always be like new ...





VIDEO
PRODUCT
SCAN
QR CODE



SI03 MAX GLOSS

Hull & Windshield Protection for gelcoat / glass / chrome

Product ID : SI03150-MAX-GLOSS 3x1.7oz 10 Micron
Consumption : +/- 0.007oz/ft²
Reachable area : +/- 250ft² Body + 250ft² Windshield
Used for : Clearcoat, acrylic, glass, chrome
Application field : Marine

Your yacht will stand out! These Kit-Sets contain all to make your yacht protected with a High-Tech ceramic layer.

- Two simple steps: Clean with our Steril Cleaner and Apply
- The original surface is protected against corrosion.
- Makes the surface anti scratch, much easier and quicker to clean, and the adhesion of dirt is reduced drastically.
- Promotes more hygienic surfaces.

This coating has an outstanding hydrophobic effect, and the surface stays cleaner longer. Cleaning intervals as well as the formation of water spots will be greatly reduced.

Expected Life Duration up to 5 Years+ (2 Years on Glass)



How to use: Page 20

- Easy to apply**
- Cut cleaning costs**
- Anti-water spot
Anti-corrosion**
- Super hydrophobic**
- Self-cleaning stays cleaner longer**
- Anti-scratch**
- Visibility safety**
- Protects your investment**

Applicator:



VIDEO
PRODUCT
SCAN
QR CODE



SI05 MAX MATTE

Hull & Windshield Protection for gelcoat / glass / chrome

Product ID : SI05150-MAX-MATTE 3x1.7oz 5 Micron
Consumption : +/- 0.007oz/ft²
Reachable area : +/- 250ft² Body + 250ft² Windshield
Used for : Clearcoat, acrylic, glass, chrome
Application field : Marine

Your yacht will stand out! These Kit-Sets contain all to make your yacht protected with a High-Tech ceramic layer.

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- Anti-scratch**
- Visibility safety**
- Protects your investment**

Applicator:





APPLY
MOVIE SCAN
QR CODE

STEP

One Step Polish

high gloss / zero swirl

Product ID : STEPG250 8.5oz
Consumption : 0.017oz/ft²
Used for : Gelcoat, glass and acrylic
Application field : Marine





Only this High Quality Polish Compound together with the recommended pads assure that every yacht can be polished from deep scratches till high gloss/zero swirl in one single step.

This saves an enormous amount on working hours as polishing takes normally 65% of the total process to make a yacht a thin film nano layer.

Purple Wool Heavy Cutting Pad cuts like natural sheepskin but finishes like a polish pad. Aggressively removes medium scratches, leaving a lustrous finish with no hazing by reducing compounding swirls.

The Cutting Pad is constructed with a blue foam and white microfiber. The Micro Cutting Pad with orange foam and white microfiber, the Polishing Pad is constructed with a black foam and black microfiber.

The pad serie is available 5.5 inch and 3 inch.

-  **Cut polish costs**
-  **Zero swirl and hologram**



APPLY
MOVIE SCAN
QR CODE

CLEAN

Steril Cleaner

for hard surfaces



Product ID : CLEAN0500 16oz / CLEAN5000 1.32gal
CLEAN020L 5gal
Consumption : +/- 0.01oz/ft²
Used for : Clearcoat, gelcoat, glass, chrome, mirrors
Application field : Marine

100% Steril with nano interlock technology (active lifting encapsulate the grease from the surface)

- Surface cleaning and residue removal.
- Cleaning gloves, notebooks, phones or any other item entering the cleanroom.
- Wipe down for pass-through to controlled environments.
- Pretreatment for the application of thin film coating

100% Steril

-  **Easy to apply spray & wipe**
-  **Indoor Outdoor**
-  **Remove grease**
-  **100% Steril**
-  **No streaking**





APPLY
MOVIE SCAN
QR CODE



APPLY
MOVIE SCAN
QR CODE

SIRP

Repellent Protector for glass / ceramics / mirrors



Product ID : SIRP0500 16oz / SIRP5000 1.32gal
SIRP020L 5gal

Consumption : +/- 0.007oz/ft²

Used for : Glass, acrylic, chrome, vinyl

Application field : Shower places.

How to use: Page 20

SIRP is an ultra long-lasting invisible surface coating which forms semi-permanent molecular bonds with the surface. The main function of treating hard surfaces with SIRP is to seal tiny pores, making it a smoother surface that will repel water and contaminants. This product is indispensable for bathrooms

- Two simple steps: Clean with our Steril Cleaner and Apply
- Makes the surface much easier and quicker to clean, and the adhesion of dirt is reduced drastically.
- Promotes more hygienic surfaces
- This coating has an outstanding hydrophobic effect, and the surface stays cleaner longer. Cleaning intervals as well as the formation of water spots will be greatly reduced.

-  **Easy to apply**
-  **Indoor
Outdoor**
-  **Cut cleaning costs**
-  **Anti-water spot**
-  **Super
hydrophobic**
-  **Self-cleaning
Stays cleaner longer**
-  **Visibility
Safety**

Applicator:



Will last 12 washes

SHRE

Pure Shine Shampoo for all exterior / interior surfaces



Product ID : SHRE1000 32oz / SHRE5000 1.32gal
SHRE020L 5gal

Consumption : 0.7oz : 2.5gal Water

Application field : Hotels, office buildings, residential housing,
airports, medical centers, schools & more.

Reactivating Pure Shine Shampoo is an advanced technology, multi-purpose foaming cleaner containing a rinsing aid that will leave hard surfaces nearly dry after rinsing with clean water.





To assure the "easy-to-clean" effect that our nano layers provide, surfaces should be free of dyes, waxes or polymer sealants.

This multi-purpose cleaner contains no polymers or colors and will not leave a film of chemicals behind on the surface.

100% Safe to use for cleaning all non-porous surfaces and meets food grade classification for kitchens.

Contains no colouring chemicals which can discolor surfaces.

Dilution ratio 1: 500 (super economical)

-  **Easy to apply**
-  **Easy to clean**
-  **Stays cleaner longer**
-  **Food grade**

Applicator:





APPLY
MOVIE SCAN
OR CODE

WSRE

Mineral Remover for hard surfaces

- Product ID** : WSRE0500 16oz / WSRE5000 1.32gal
WSRE020L 5gal
- Consumption** : +/- 0.007oz /ft²
- Used for** : Hard surfaces
- Application field** : Hotels, office buildings, residential housing,
airports, medical centers, schools & more.

This fully biodegradable stain remover is made with a superior synergistic blend of environmentally friendly acids to boost cleaning performance and potential cost-savings. WSRE is ideal for removing mineral deposits from glass, steel, porcelain, and many other materials.

- WSRE is anti-corrosion and safe to use on all hard surfaces.
- WSRE prevents the deposition of soap residue and can be used to dissolve limescale formed by hard water.
- GHS label: NO health hazard label or acute toxicity
- Readily biodegradable (OECD)

Safe to use



**Easy to Apply
Spray and Clean**



Safe for skin



Non-corrosive



**Dissolves calcium
and magnesium**



**Reduce spot-
ting & filming**

Application: Wet the surface, and wait 1 minute so that the calcium and magnesium can dissolve. Wipe away any residue and, if necessary, use our Scrub Cleaner to clean it more deeply.



APPLY
MOVIE SCAN
OR CODE

SCRUB

Scrub Cleaner for hard surfaces

- Product ID** : SCRUB0250 8.5oz / SCRUB5000 1.32gal
SCRUB020L 5gal
- Consumption** : +/- 0.007oz /ft²
- Used for** : Hard surfaces
- Application field** : Hotels, office buildings, residential housing,
airports, medical centers, schools & more.

Scrub Pretreatment Cleaner is a smooth rubbing compound, suitable for scrubbing glass, steel, porcelain and many other materials without scratching the surface.

If you need more scouring power, then please use our specially designed scrub pad.

Leaves no scratches behind after treatment



Non-scratching

Applicator:





APPLY
MOVIE SCAN
OR CODE



MPCL

Multi Purpose Cleaner for all interior surfaces



Product ID : MPCL0500 16oz / MPCL5000 1.32gal
MPCL020L 5gal

Consumption : +/- 0.017oz /ft²

Used for : Cleaning all surfaces

Application field : Marine

The All-Purpose Cleaner is a fast, all-surface interior cleaner, low foaming, odor free, and especially suitable for removing stubborn stains from carpets, fabrics, vinyl, plastics and leather safely.

- It is very easy to clean dirt.
- Ready-to-use mixture with the right chemical strength and safe to use
- Of course it is safe for the surface of fabrics, carpets, plastics, leather, rubber and does not fade paint.
- Quickly remove dirt, dust and food scraps

- Easy to apply spray & wipe**
- No discoloration**
- Indoor Outdoor**
- Quick to use**
- Spills are easy to remove**
- Cleaner for longer**

Applicator:



Safe to use does not harm the surface



APPLY
MOVIE SCAN
OR CODE



Untreated

After treatment

SIGS

Gloss Sealer for hard surfaces



Product ID :SIGS0500 16oz / SIGS5000 1.32gal
SIGS020L 5gal

Consumption : +/- 0.007oz/ft²

Used for : Marble / granite / wood / plastics / metal

Application field : Marine

The Si-Gloss Sealer forms semi-permanent molecular bonds to protect hard surfaces.

- Brings dull and weathered surfaces back to life, leaving a clean satin-gloss finish
- This sealant has a hydrophobic effect, that makes it an ideal product for preventing drying rings on tables
- The bacterial disinfectant present in the hydrophobic nano layer
- Eliminates viruses and bacteria and reduces the chance of contamination, the disinfection process continues as long as the nano layer is present on the surface.

- Easy to apply spray & wipe**
- Indoor Outdoor**
- Hydrophobic: Water & oil repellent**
- Resists drying rings**
- Anti-water spot**
- Satin-gloss**

Applicator:



Renew every surface



Untreated

After treatment



Untreated

After treatment



APPLY
MOVIE SCAN
OR CODE

SIFP

Floor Protector for teak wood



Product ID : SIFP1000 1L / SIFP5000 5L / SIFP020L 20L
Consumption : +/- 0.017oz/ft² or ready to use 0.17oz/ft²
Used for : Marble / granite / tile / wood flooring
Application field : Marine

Floor Nano-Polish consists of the latest advanced material composition, making a flexible, yet harder and more durable floor protection than our competitors.

A simple 1:9 dilution with normal water allows an easy to apply polish time saving process that requires no additional water to be added.

Polish the floor until almost dry, then remove the residue.

Wait 10 minutes and finish buffing to a high gloss with a fine polish pad.

Protects 2 times longer than other solutions.

- Indoor Outdoor**
- Easy to apply**
- Hydrophobic: Water & oil repellent**
- Cut cleaning costs**
- Stays cleaner longer**
- Breathable & flexible**
- Superior hardness**

Applicators:



SI07

Protector for stainless / aluminum / chrome



Product ID : SI070KIT 1oz
Consumption : +/- 0.007oz /ft²
Reachable area : +/- 150ft²
Used for : Stainless steel, aluminum, chrome, paint, varnish
Application field : Marine

How to use: Page 20

SI07 is an ultra long-lasting invisible surface coating which forms semi-permanent molecular bonds with the surface.

- Two simple steps: Clean and Apply
- Fingerprints can easily be removed with a microfiber towel.
- Anti-bacterial properties boost hygiene level
- Surface has an outstanding hydrophobic effect, and stays cleaner longer.
- The coating has a hardness of H9 (anti-scratch)
- Protects against corrosion.

Expected Life Duration up to 5 years+

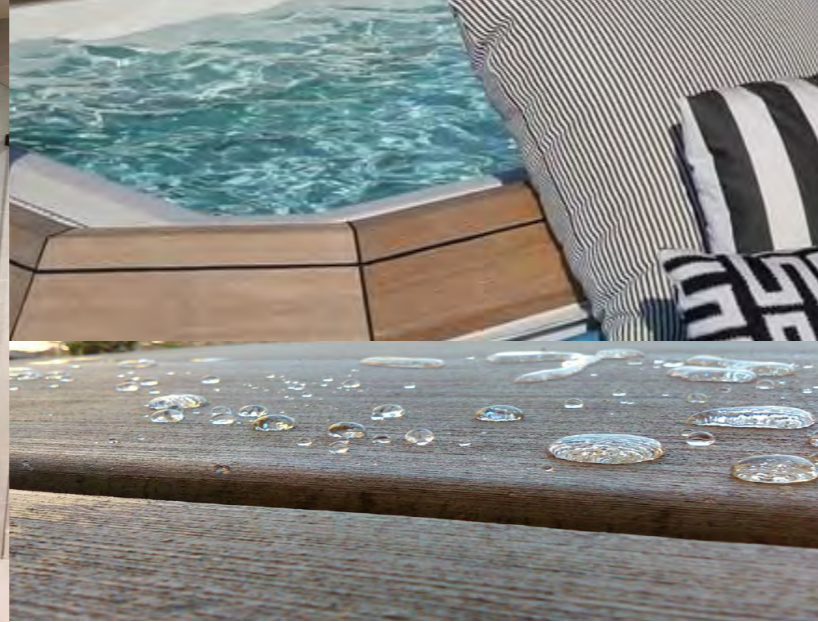
- Indoor Outdoor**
- Cut cleaning time**
- H9 hardness**
- Super hydrophobic**
- Anti-corrosion**
- Anti-finger-print**
- Self-cleaning Cleaner longer**

Aplikator:





APPLY
MOVIE SCAN
OR CODE



APPLY
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SIO8

Protector

natural wood / natural stone



| | |
|--------------------------|---|
| Product ID | : SIO80500 16oz / SIO85000 1.32gal SIO8020L 5gal |
| Consumption | : +/- 0.14oz/ft ² |
| Used for | : Natural stone, lacquered wood |
| Application Field | : Marine |

How to use: halaman 20

The SIO8 invisible sealant forms a durable bond that is breathable and flexible.

- Water and dirt are effectively repelled.
- Hygiene goes to a higher level.
- This coating has an outstanding hydrophobic effect, making surfaces stay cleaner and drier longer.
- Cleaning intervals on walls are longer, and the need for restoration will be greatly reduced.
- Natural stone and wood are protected against the penetration of pollution.

Expected Life Duration up to 5 years

- Easy to apply
clean & dry & spray
- Sprayable
- Invisible
- Indoor
Outdoor
- Breathable
& flexible
- Super
hydrophobic
- Spills are easy
to remove
- Stays cleaner
longer

SIFX

Protector

fabric / leather / canvas



| | |
|--------------------------|--|
| Product ID | : SIFX0500 16oz / SIFX5000 1.32gal SIFX020L 5gal |
| Consumption | : +/- 0.07oz/ft ² (leather) 0.014oz/ft ² (textile) |
| Used for | : Fabric, leather, carpets and canvas |
| Application field | : Marine |

How to use: halaman 20

The SIFX invisible sealants form a durable bond that is breathable and flexible with textile fibers and leather surfaces.

- Water and dirt are effectively repelled, and spills are easier to remove.
- Hygiene goes to a higher level.
- This coating has an outstanding hydrophobic effect, making fabrics, leather, and carpets stay cleaner and drier longer.
- Cleaning intervals on carpets are longer, and the need for restoration will be greatly reduced.

Expected Life Duration up to 1-3 years (depending traffic)

- Easy to apply
clean & dry & spray
- Sprayable
- Transparent
original colours remain
- Indoor &
outdoor use
- Breathable &
flexible
- Hydrophobic
repel water & oil
- Easy to clean
- Cleaner for longer

HOW TO USE:

NANO-CERAMIC SIRP, SIO7, SIO8, SIFX, SIO3-SIO5 MAX

These products can be stored for up to 24 months (*in a dry, temperature-stable, dark environment*)

Ambient temperature:

41-86°F Avoid direct sunlight and/or high air humidity.

IMPORTANT:

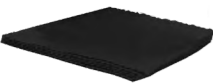
Before you use a NANO-CERAMIC product, please make sure you wear suitable protection gear. We always recommend to use latex or nitrile gloves to make sure your hands are protected from any possible damage to your skin. Use a mask for extra safety.



Mask



Nitrile gloves



Applicators

CLEANING

Clean the surface thoroughly with our Steril Cleaner until it is absolutely clean. If necessary, use our Scrub Cleaner or Reactivating Pure Shine Shampoo in advance. Make sure that all contamination is removed so that the glass coating can bind properly onto a clean surface. Make sure that the surface is completely dry before application!

APPLICATION OF SIRP

Spray a layer of nano SIRP on the surface and rub it in with a dry microtowel, keep rubbing it into the surface with strong pressure and wipe until all the product is even and scrubbed and only a little hazing / residue is visible Gently wipe off this hazing / residue with a clean microfiber cloth after about a minute There is only a little pressure needed to remove the hazing completely. Curing time 1 hour.

APPLICATION OF SIO7

Shake the bottle very well before use! Take a soft cotton pad and pour a few drops of the coating on it (start with small amounts, only a little product is needed). Moisten all the glass, steel, or wood surfaces evenly. Wait 2 minutes. When applied correctly, you can now see a light grey haze on the surface. Gently polish away the haze after all solvents are vaporized by using a clean (microfiber) cloth. Curing time 1 hour.

The MAIN FUNCTION OF SIRP AND SIO7 is to seal the pores of hard surfaces and to prevent against stubborn water spots and fingerprints

APPLICATION OF SIO8 AND SIFX

Clean the surface thoroughly until it is absolutely clean. Make sure that all contamination is removed so that the sealant can bind properly onto a clean surface. Make sure that the surface is completely dry before application! Shake the bottle very well before use! Put it into a sprayer and spray until the surface is saturated, and let the surface dry for 24 hours. Shake the bottles very well before use! Put it into a sprayer and spray until the surface is saturated, and let the surface dry for 24 hours.

CURING TIME

Immediately after polishing, the coating is dry and resistant to touching. At normal ambient temperature, the coatings are completely cured after approximately 12 hours.

APPLICATION OF SIO3-SIO5-MAX

Our coatings have best results on new on almost like new surfaces, we recommend to polish the surface if needed. Wear nitril gloves to clean the surface with our Steril Pretreatment Cleaner. (without wearing gloves, the oil from your hands may appear via the towel onto the surface) !!

Use more than one clean cloth to remove the dirt from the surface. (Please make sure you don't brush the dirt around on the surface by using dirty clothes.) Making the clear paint-gelcoat-chrome-glass-surface clean is the most important issue. If the surface is not super steril than you will experience chemical reactions between our coatings and the still available contamination what is then visible into the ceramic layer when it is cured. In that case you will need to polish the surface again. So please don't hurry in carrying out this preparation work, but instead focus on this for 100%.

Learn the right application technique > Watch and Study the Apply Video on the packaging (fragment **BASE COATING SIBC**)

Use nitril gloves! Remove the plastic inner closure from the bottle and put in the dripper. Shake bottle before use! We recommend to apply the surface in easy to handle segments of about 15"x 15"inch, following the panels shape and corner lines and use these lines for overlaps. Put 8-10 drops BASE COAT on the suede mini towel using the applicator block underneath, divide the coating properly by going 3 times over the same surface, wait till it lights up (+/- 25sec) and remove the residue carefully, and buff it lightly use a separate micro towel for this. Wait 2 hours before you continue with the application of one of our hydrophobic Top Coatings. After 2 hours BASE COAT is 80% cured and ready to receive one of our TOP COATINGS. After about 7 days the BASE COATING has been fully cured and is almost unremovable.

(fragment TOP COATING **SIO3-SIO5-MAX**)

Use nitril gloves! Remove the plastic inner closure from the bottle and put in the dripper. Shake the bottle before use! We recommend to apply the surface in easy to handle segments following the panel shape and corner lines and use these lines for overlaps. Put 6-8 drops 15"x 15"inch, (if start use more drops as the towel is otherwise too dry) TOP COATING on the suede mini towel using the applicator block underneath. Start dividing it from out of the middle of the surface and keep spreading it around by light pressure in criss-cross motions. until the product is evenly distributed. MOST IMPORTANT keep on doing this till no product residue is visible anymore. If you use too much coating and/or spreading it out from example one start position in a corner of a panel then you will not be able to divide it properly towards the other side and it will roll-up on each other and form a not equal layer. To use too much coating and not divide it equally is the second most critical point !! When you apply TOP COATING in this correct way, then there is no need to use a micro towel for polishing anymore.

(fragment **SAFETY VISION SIO2**)

Apply the nano layer SAFETY VISION COATING with the cotton apply pad. Spread 10-15 drops 20"x 25"inch of SAFETY VISION COATING on the cotton pad and apply rub it in motions on the windshield with firm pressure until all of the product is evenly distributed and only very little residue is visible. Remove the coating residue with a soft clean microfiber cloth after about a minute and buff the glass/panels gently to take the veils away. There is not much pressure necessary to remove it completely. Note: dry the dripper and close the bottles tightly if you want to save the content for future use. At normal ambient temperature the Nano layers are sufficiently cured after approximately 6 hours (or 2 hours Infrared) (avoid water contact).



APPLY VIDEO
BASE COAT
SCAN
QR CODE



APPLY VIDEO
TOP COAT
SCAN
QR CODE



APPLY VIDEO
SAFETY VISION
SCAN
QR CODE

What is NANO-CERAMIC Permanent Coating?

NANO-CERAMIC permanent coating is the latest generation of protective coating which transforms paint into a hard ceramic, providing superior scratch resistance and permanent protection for all exterior or interior surfaces.

NANO-CERAMIC permanent coating is 600°F resistant and more than 6 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

Low Maintenance for 3 decades to come!

Our NANO-CERAMIC permanent coating is rigorously tested by an independent testing laboratory according to the European standard for outdoor paints (EN 1504-2) please find the test report on our website.

Can NANO-CERAMIC Permanent Coating be applied on any surface?

The NANO-CERAMIC permanent coating can be applied directly or indirectly on all kinds of interior and /or exterior surfaces (absorbing and non-absorbing), such as concrete, steel, wood, acrylic, gypsum and many more.



Is NANO-CERAMIC Permanent Coating self-cleaning?

NANO-CERAMIC permanent coating provides a permanent hydrophobic surface that is self cleaning, easier to clean and stays cleaner longer as water and dirt can not penetrate the ceramic layer. NANO-CERAMIC permanent coating is resistant to water vapor and water absorption.

Can our hydrophobic coatings increase acceleration time and speed while simultaneously reducing fuel consumption?

Yes, the superhydrophobic surface has a good drag reduction effect, and the maximum drag reduction rate is up to 23.4%.

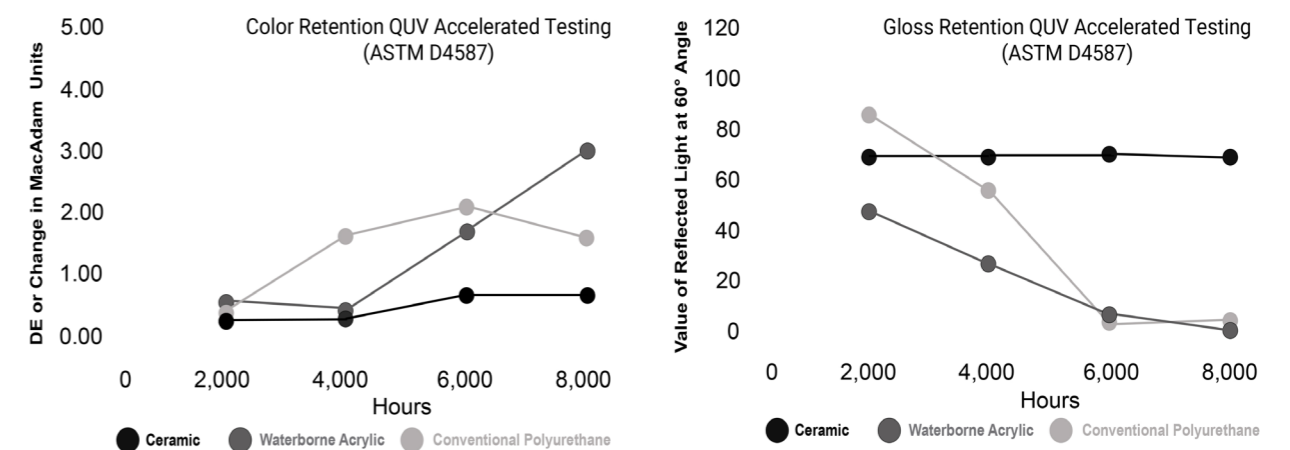
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated surface and a 27% improvement compared to a conventionally anti-fouling coated surface.

As published in the International Journal of Marine Engineering Innovation and Research. Click [here](#) for the IPTEK analyses.

Other paints are simply not suitable for longterm harsh outdoor environments.

In order to avoid poorly maintained properties (concrete rot, chipped and weathered paint, etc) for the next decades, our Permanent Coating System is simply the best solution to keep the value of your investment in place.

Superior in Color & Gloss Retention



A special selection of high grade tinting chemicals computerized dispersed in a superior ceramic resin.

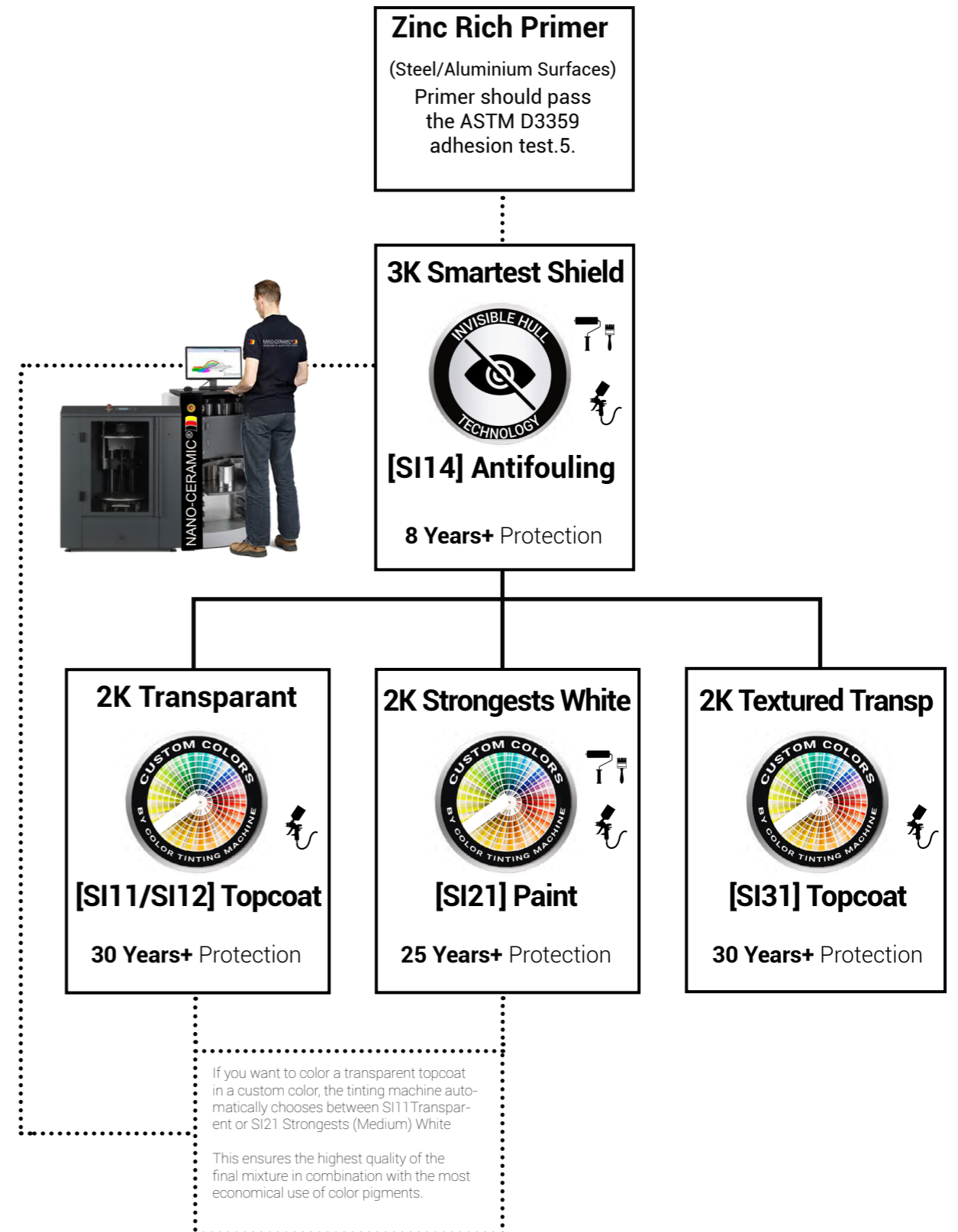
Conventional gelcoats are a mixture with Epoxy or Polyurethane resins, of which the quality of resin and pigments are the most important factor in the ultimate strength. Most have a lifespan of 15 years, with hardness, color and gloss retention (sun fading) and manual mixing towards consistent quality being the most common problems in keeping the desired object at an aesthetically pleasing level.

Quality Comparison of paints technologies

In case written in bold font it means existing shortcomings in quality.

| Characteristics | Acrylic Latex walls ceilings | Acrylic walls floors | Epoxy floors | Polyurethane waterproofing | CERAMIC® all surfaces |
|-------------------------------|---------------------------------|-------------------------|-----------------|-------------------------------|--------------------------|
| Primer | Yes | Yes | Yes | Yes | No |
| Adhesion Strength | Poor | Poor | Poor | Poor | Excellent |
| Cross Cut Test | Poor | Poor | Good | Poor | Excellent |
| Abrasion Resistance | Poor | Poor | Average | Poor | Excellent |
| UV Radiation Resistance | Average | Average | Poor | Good | Excellent |
| Artificial Atmospheric Agents | Poor | Poor | Good | Good | Excellent |
| Colour Retention | Average | Average | Poor | Poor | Excellent |
| Gloss Retention | Poor | Poor | Poor | Poor | Excellent |
| Chemical Resistance | Good | Good | Good | Poor | Excellent |
| Severe Chemical Attack | Poor | Poor | Average | Poor | Excellent |
| Temperature Resistance | 140°F | 196°F | 350°F | 505°F | 600°F |
| Thermal Shock Resistance | Good | Good | Poor | Good | Excellent |
| Carbon Dioxide Permeability | Poor | Poor | Good | Poor | Excellent |
| Permeability water vapour | Average | Average | Good | Average | Excellent |
| Water Absorption Rate | 5-15% | 1% | 2% | 3% | 0% |
| Aging at 158°F | Poor | Poor | Good | Average | Excellent |
| Adhesion Strenght Pull-off | Poor | Average | Good | Poor | Excellent |
| Impact Resistance | Poor | Average | Good | Poor | Excellent |
| Anti-Graffiti | No | No | No | No | Yes |
| Anti-Termite (Wood) | No | No | No | No | Yes |
| Hydrophobic Self Cleaning | No | No | No | No | Yes |
| Easy to Clean | No | No | No | No | Yes |
| Total Solar Reflectance (TSR) | 60 (white) | 60 (white) | 60 (white) | 60 (white) | 88 (white) |
| Expected Lifetime in Years | <7 | <7 | <5-15 | <5-15 | 15-30+ |

Ceramic Coating & Paint System





SI11

2-Component (2K)

Topcoat Transparent for glossy surfaces

| | |
|--------------------------|---|
| Product ID | : SI112000 67oz / 4.2 lbs |
| Consumption | : 3 layers 0.06lbs/ft ² - 0.96oz/ ft ² = 3 mil/ 70ft ² |
| Reachable area | : 2 layers 0.04lbs/ft ² - 0.64oz/ ft ² = 2 mil/140ft ² : 1 layer 0.02lbs/ft ² - 0.32oz/ ft ² = 1 mil/210ft ² |
| Hardness | : H9 |
| Used for | : Fiberglass, steel, aluminium, plastics, wood |
| Application field | : Marine, exteriors, interiors |

SI11 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating is permanent hydrophobic.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C.

Expected Life Duration up to 30 years+



How to use: Page 31



SI12

2-Component (2K)

Topcoat Transparent for matted surfaces

| | |
|--------------------------|---|
| Product ID | : SI112000 67oz / 4.4 lbs |
| Consumption | : 3 layers 0.06lbs/ft ² - 0.96oz/ ft ² = 3 mil/ 70ft ² |
| Reachable area | : 2 layers 0.04lbs/ft ² - 0.64oz/ ft ² = 2 mil/140ft ² : 1 layer 0.02lbs/ft ² - 0.32oz/ ft ² = 1 mil/210ft ² |
| Hardness | : H9 |
| Used for | : Fiberglass, steel, aluminium, plastics, wood |
| Application field | : Marine, exteriors, interiors |

SI12 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating is permanent hydrophobic.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C.

Expected Life Duration up to 30 years+



How to use: Page 31





SI21

2-Component (2K)

Paint The Strongest White for glossy surfaces

| | |
|--------------------------|--|
| Product ID | : SI212000 67oz / 5.3 lbs |
| Consumption | : 3 layers 0.044lbs/ft ² - 0.56oz/ ft ² = 3 mil/120ft ² |
| Reachable area | : 2 layers 0.030lbs/ft ² - 0.37oz/ ft ² = 2 mil/160ft ² |
| | : 1 layer 0.014lbs/ft ² - 0.19oz/ ft ² = 1 mil/240ft ² |
| Hardness | : H8 |
| Used on | : Gelcoat, fiberglass, steel, aluminium, plastics, wood |
| Application field | : Marine Exteriors |

SI21 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating does not absorb any water
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 300°C

Expected Life Duration up to 25 year+



How to use: Page 31

-  **Easy to apply**
Repaintable
-  **Cut maintenance costs**
-  **Anti-water spot**
Anti-corrosion
-  **Permanent hydrophobic**
-  **Self-cleaning**
stays cleaner longer
-  **Anti-scratch**
-  **Impact Resistance**
2lbs/2.6ft
-  **Protects your investment**



SI14

3-Component (3K)

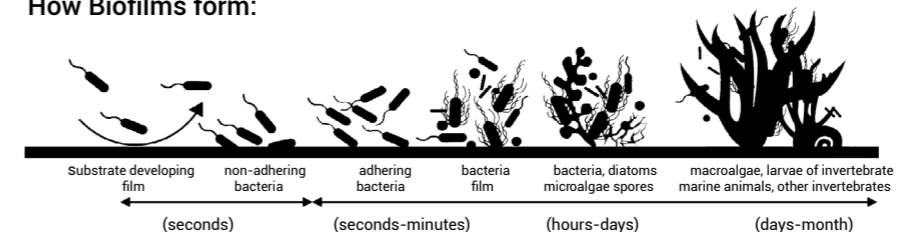
The Smartest White black/red/blue/grey/transparent

| | |
|--------------------------|---|
| Product ID | : SI144000-BK SI144000-RD 1gal/ 9.5 lbs |
| | SI144000-BL SI144000-GR SI14400-TR |
| Consumption | : 2 layers 0.08lbs/ft ² -1.30oz/ft ² = 8 mil/140ft ² |
| Reachable area | : 1 layers 0.04lbs/ft ² -0.65oz/ft ² = 4 mil/280ft ² |
| Hardness | : H7 |
| Used for | : Gelcoat, fiberglass, steel, aluminium, plastics, wood |
| Application field | : Marine Antifouling |

SI14 is a revolutionary High-Tech Ceramic Antifouling Paint with a self-polishing amphiphilic biofilm that masks the boat hull surface to the marine organisms.

This world's leading antifouling stores more and releases less non-biocidal agents, resulting in by far the longest maintenance interval of 8 year+ currently available.

How Biofilms form:



How to use: Page 31

-  **Easy to apply**
Repaintable
-  **Amphiphilic**
Invisible Hull Technology
-  **Cut maintenance costs**
-  **Organic Copper and Tin**
Non Biocidal
-  **Super Sleek Surface**
Algae release <6 knots
-  **Self-cleaning**
stays cleaner longer
-  **Save fuel**
-  **Impact Resistance**
2lbs/2.6ft
-  **Thermal Shock-Resistant**

SI31

2-Component (2K)

Textured Transparent Semi Gloss antislip - high impact resistant

| | |
|-------------------------|---|
| Article Nr. | : SI312000 67oz / 4.6 lbs |
| Consumption | : 3 layers 0.050lbs/ft ² - 0.76oz/ ft ² = 3 mil/ 90ft ² |
| Reachable area | : 2 layers 0.033lbs/ft ² - 0.51oz/ ft ² = 2 mil/180ft ² : 1 layer 0.017lbs/ft ² - 0.25oz/ ft ² = 1 mil/270ft ² |
| Hardness | : H9 |
| Used on | : Gelcoat, fiberglass, steel, aluminium, : plastics, wood, virtually any surface. |
| Application area | : Buildings, marine, offshore structures, bridges, etc |

SI31 is a clear solvent-based ceramic coating, linked with a ceramic activator, available in semi-gloss and includes sprayable nano particles. Known for its exceptional durability, this coating easily applies to any organic surface without needing a primer. Its textured design makes it perfect for anti-slip needs.

- Easily repels water, dirt, dust, and pollutants.
- This coating has an outstanding hydrophobic effect.
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 600°F.
- Zero absorption, waterproof, insulation and heat rejecting

Expected Life Duration up to 30 years+



How to use: Page 31



How to use our Permanent Coating System:

These products can be stored for up to 24 months (*in a dry, temperature-stable dark environment*)

Processing Temperature:

Ambient temperature: 41-86°F
Avoid direct sunlight, Rain and /or high humidity.

IMPORTANT:

Before you use a NANO-CERAMIC product, please make sure you wear suitable protection gear. We always recommend using a paint suit, respirator mask and latex or nitrile gloves.

Application information

The SI11/SI12/SI21/SI14/SI31 coatings can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, indoors, or outdoors. The surface underneath will be superbly protected against erosion and corrosion and will stay cleaner longer. Cleaning becomes quicker, easier, and less expensive, as special cleaning agents are unnecessary.

Preparation

Make sure the surface is free from any contamination and dirt. A zinc rich primer can be used for ferrous metals that are exposed to coastal and marine environments or in case of problems with the substrate.

Warning the surface must be completely dry before application and must stay dry for 6 hours after application after application!

The 2-Component Permanent Coating System

Mix the can SI11B-SI12B-SI21B-SI31B with the can of SI11A-SI12A-SI21A-SI31A by pouring can B into can A, or measure **exactly by NET WEIGHT** in a ratio of 9:1 **by using a scale** and **mix very well**.

Mix SI14A2800 with SI14C0800 with by pouring can C into can A, or measure **exactly by NET WEIGHT** in a ratio of 7:2 **by using a scale** and **mix very well**, then add the entire content of SI14B0400 or measure **exactly by NET WEIGHT** in a ratio of 7:1 (compared to SI14A2800) **by using a scale** and **mix very well**. Carefully pour the mixed contents into a professional paint sprayer, and spray in thin layers until the surface reaches your desired thickness. Depending on the surface, material and structure, different application techniques can be used (such as paint rollers or brushes). Let the surface dry for 24 hours. It is touch-dry in 1 hours, after 4 hours, 85% cured, and the remaining 15% (transformation into ceramics) is fully cured after 7 days. Be aware that the mixed contents cannot be stored longer than 3 hours. If have orange peel you may wet /sand the surface with P1500 and after P2000 and polish with One Step Polish till high shine. The surface can simply be maintained with a high pressure washer at 80 bar using our biologically degradable Reactivating Shampoo.

The surface can simply be maintained with a high pressure washer at 80 bar using our biologically degradable Reactivating Shampoo.

Tool cleaning and Thinner solvent

The individual components, as well as the mixing system of the paint sprayer, can be diluted and cleaned using our solvent. All of our paints and coatings are ready to use, for certain spray applications, especially dark colors which require more

Outfit/Applicators:



Fresh Air Respirator



Paint Suit



Nitrile gloves



Professional Paint Sprayer
1.3-1.7mm / 0.05-0.06" nozzle



Paint Roller
(Microfiber)



Respirator



Paint Brush
(acrylic)

SIX1

2-Component (2K)

Primer Micro Zinc Grey

surface modifier

| | |
|-------------------------|--|
| Article Nr. | : SIX11000 32oz / 4 lbs |
| Consumption | : 2 layers 0.030lbs/ft ² - 0.37oz/ ft ² = 2 mil/160ft ² |
| Reachable area | : 1 layer 0.014lbs/ft ² - 0.19oz/ ft ² = 1 mil/240ft ² |
| Hardness | : H7 |
| Used on | : Steel, Aluminium and other organic surfaces |
| Application area | : Buildings, marine, airports, offshore structures, bridges |

SIX1 is a solvent based micro zinc primer. This primer is used for corrosion protection on stainless, galvanized, carbon and alloy steel, aluminum in corrosive conditions and has excellent adhesion to all organic substrates and to one of our ceramic topcoats. The primer can be applied at a relative humidity of 40-80% and can be painted over within 8 hours 85°F, 1 hours 140°F



Fast Repaintable



Excellent adhesion



Micro Zinc & Wood Grain Filler

SIX2

1-Component (1K)

Primer Wood Grain Filler

surface modifier - absorption reducer

| | |
|-------------------------|---|
| Article Nr. | : SIX21000 32oz / 3.5 lbs |
| Consumption | : 2 layers 0.04lbs/ft ² - 0.64oz/ ft ² = 2 mil/140ft ² |
| Reachable area | : 1 layer 0.02lbs/ft ² - 0.32oz/ ft ² = 1 mil/210ft ² |
| Hardness | : H4 |
| Used on | : Wood |
| Application area | : Buildings, marine, airports, bridges |

SIX2 is a waterborn wood grain filler. This primer is used as surface modification to reduce capillary absorption and has an excellent adhesion to all organic substrates and towards one of our ceramic top coats. The primer can be applied at a relative humidity of 40-80%.



Fast Repaintable



Excellent adhesion



VOC Free



SOLV Thinner solvent

for all types of our ceramic paint & coating



Article Nr: : SOLV0400 14oz / 0.8 lbs

All our paints and coatings are ready to use, for certain spray applications, especially dark colors who require more than average color pigments, it may be necessary to use a little thinner solvent to achieve optimum flowability.

RETA/ACCL Retarder Accelerator

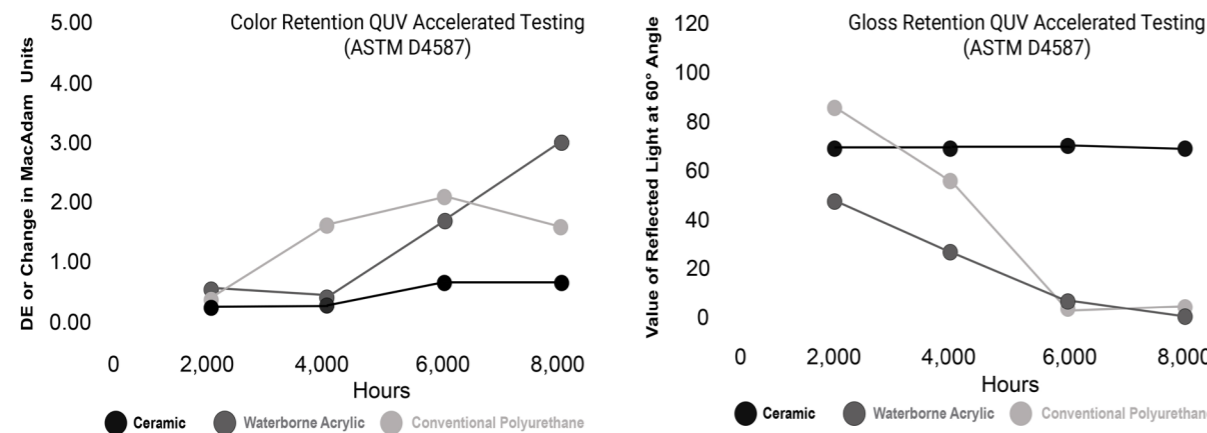
slow down flash time or speed up curing



Article Nr: : RETA0400 14oz / 0.85 lbs ACCL0200 7oz / 0.4 lbs

If your application need longer flash time (longer time to build up the layer with a second or third coat you can add the RETA Retarder.
In case you want to speed up the curing process you can add the high efficient ACCL Accelerator.

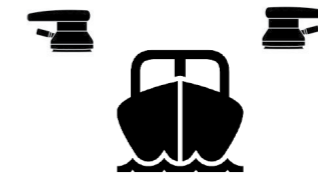
Ceramic Paint Color and Gloss Retention QUV Accelerated Testing (ASTM D4587)



Maintenance Plan Thin Film Coating



Step 1
Washing



Step 2
Polishing



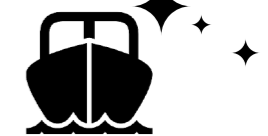
Step 3
Steril Cleaner



Step 4
Basecoat
Curing time: 2 hours
after application

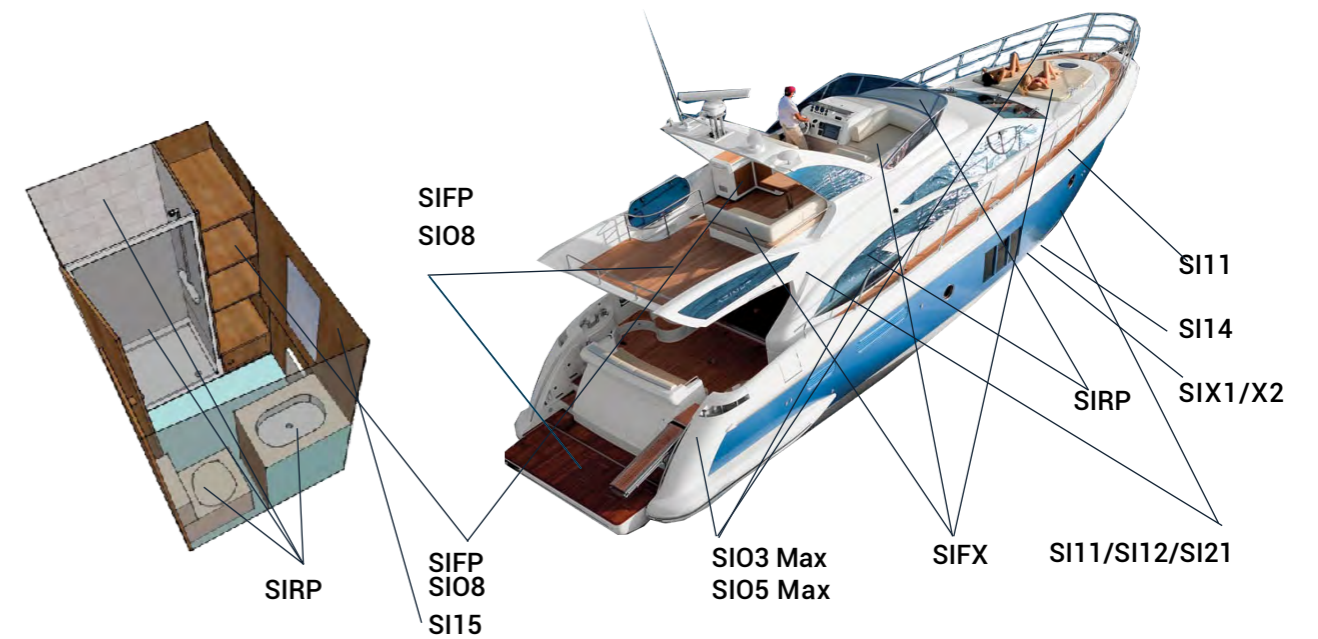


Step 5
Nano Layer
Hydrophobic
Topcoat



Step 6
Curing time:
6 hours in
ambient
temperature

Where to use our coatings:



Color card

Other colors need minimal 100kg

Residential

| | |
|---|---|
| SI13 White Egg-Shell (Flat Finish) 15/25 (20/60") | SI41 Textured White Semi Gloss 41/69 (20/60") |
| SI15 White Egg Shell (Flat Finish) 18/28 (20/60") | SI42 Textured White Matte 11/21 (20/60") |
| SI21 White Gloss 49/77 (20/60") | |
| SI22 White Satin 33/59 (20/60") | |

Original
Cool white
RAL 9001
Cream white
RAL 9002
Grey white
RAL 9003
Signal white
RAL 9004
Signal black
RAL 9005
Jet black
RAL 9006
White aluminium
RAL 9007
Grey aluminium
RAL 9010
Pure white
RAL 9011
Graphite black
RAL 9016
Traffic white

RAL 9018
Papyrus white
RAL 9022
Pearl light grey
RAL 9023
Pearl dark grey
RAL 1000
Green beige
RAL 1001
Beige
RAL 1002
Sand yellow
RAL 1011
Brownbeige
RAL 1013
Pearl white
RAL 1014
Ivory
RAL 1015
Light Ivory
RAL 9017
Traffic black

RAL 3015
Light pink
RAL 6007
Pastel blue
RAL 4009
Pastell violet
RAL 6027
Light green
RAL 7000
Squirrel grey
RAL 1036
Pearl gold
RAL 8029
Pearl copper
RAL 4012
Pearl blackberry
RAL 6025
Pearl gentian blue
RAL 6036
Pearl opal green
RAL 8016
Mahogany braun

Wood

SI11 Transparent Gloss 51/78 (20/60")
SI12 Transparent Matte 11/21 (20/60")

SI11 Transparent
SI11 Light
SI11 Nut
SI11 Colonial

Industrial

SI11 Transparent Gloss 51/78 (20/60")
SI21 White Gloss 49/77 (20/60")
SI22 White Satin 33/59 (20/60")

Transparent
RAL 1026
Lumious yellow
RAL 3020
Traffic red
RAL 9005
Jet black
RAL 1004
Golden yellow [Cat]
RAL 6002
Leaf green [J.D Deere]
RAL 7035
Light grey
RAL 7011
Dark grey
RAL 7003
Silver grey
RAL 8002
Signal brown
RAL 8025
Pale brown

Marine

SI12 Transparent Matte 11/21 (20/60")
SI41 Textured White Semi Gloss 41/69 (20/60")
SI42 Textured White Matte 11/21 (20/60")

Cool white
RAL 9010
Pure white
RAL 9001
Cream white
RAL 9023
Distant blue
RAL 1023
Traffic yellow
RAL 7001
Silver gray
RAL 1015
Light Ivory
RAL 9016
Pure white
RAL 9001
Cream
RAL 1001
Beige
RAL 1020
Olive yellow

Military

SI31 Textured Transparent Semi Gloss 41/69 (20/60")
SI33 Textured Black Semi Gloss 41/69 (20/60")

RAL 3000
Fire red
RAL 3004
Burgundy
RAL 7036
Platinum
RAL 9005
Jet Black
RAL 9005
NATO green
RAL 9019
Turquoise bleu
RAL 6027
Light green
RAL 9000
Violet blue
RAL 9012
Light blue
RAL 9002
Ultramarine blue
RAL 9013
Sapphire blue
RAL 5005
Signal blue

Antifouling

SI14 Color 3141 (20/60")

Light stone
RAL 6031
Bronze green
RAL 6451
Brunswick green
RAL 7016
Dark sea grey
RAL 5008
[RAF] Blue grey
RAL 1015
Desert sand
RAL 9000
Camo beige
RAL 9012
Dark grey camo
RAL 9002
Dark brown camo
RAL 6022
Olive drap
RAL 5005
Very dark drap

Antifouling

SI14 Color 3141 (20/60")

Jet Black
RAL 9005
Signal Red
RAL 3001
Signal Grey
RAL 9002
Ultra marine blue
RAL 7004

Scan QR Code for TDS and SDS

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2K CERAMIC COATING
Super Durable Utilizes Nano-Technology
UV / Chemical / 300°C / 600°F Resistant

Perfect adhesion on:
Fiberglass, Epoxy
Aluminium, Steel
Concrete, Stone,
Block, Acrylic, Calcium

Content:
Epoxy Resin, PFPE
Additive, Diurethane/Acid

Packaging:
Epoxy Resin 300 kg (20 HOP)

Content: 1.8L / 60oz (NET WT. 1.73 kg / 3.8 LBS)

TDS SDS

GLOSS **TRANSPARENT / COLORABLE** **TRANSPARENT**

WARNING: FLAMMABLE - LIQUID, VAPOR AND SPRAY MIST HARMFUL EXPOSURE MAY CAUSE LUNG DAMAGE, ALLERGIC REACTION OR RESPIRATORY REACTION, MAY BE HARMFUL IF SWALLOWED, MAY CAUSE EYE, SKIN, NOSE AND THROAT IRRITATION

Notes:

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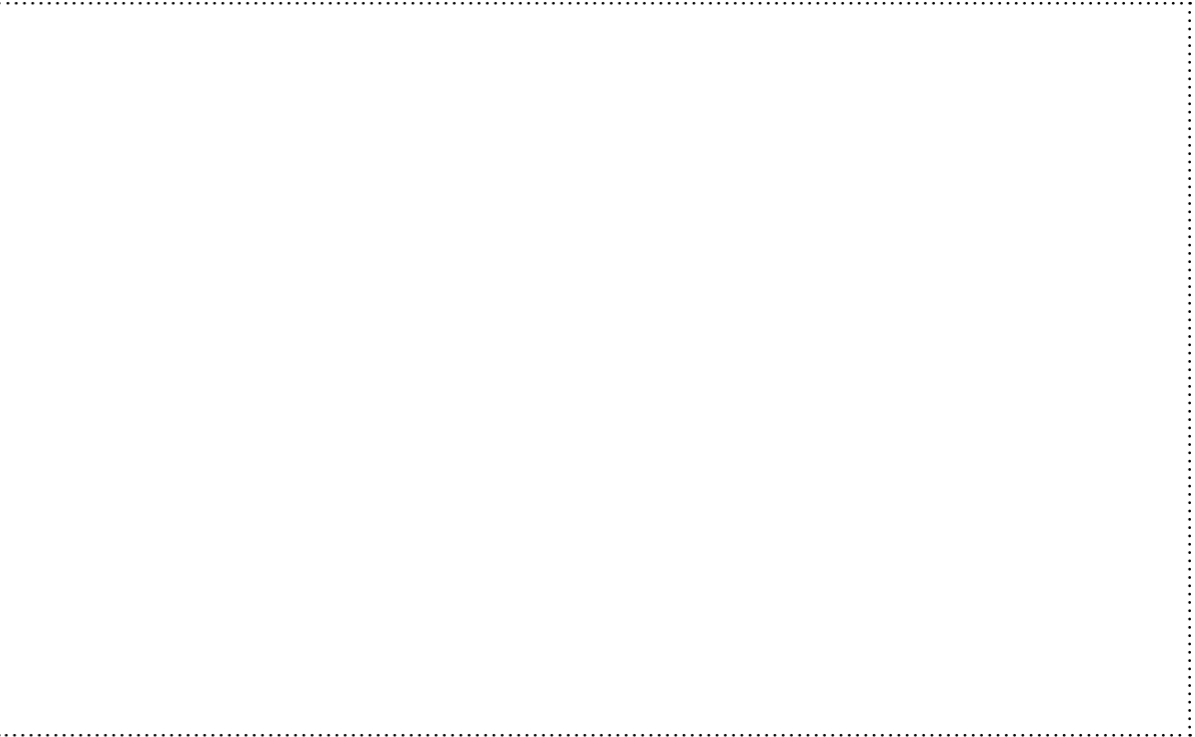
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Drawing:



Video Application & (Test) Results

SYSTEM CERTIFICATION
CERTIFICATION DE SYSTEMES
1006 9001
SGS

PDF Adobe

SGS TEST REPORTS SCAN QR-CODE

PDF Adobe

TECHNICAL VIDEO SCAN QR-CODE

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TEST REPORT EN 1504-2 SCAN QR-CODE

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Invisible hull technology**



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*Did you know that our
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lasts 30 Years+ ?*

Dealer