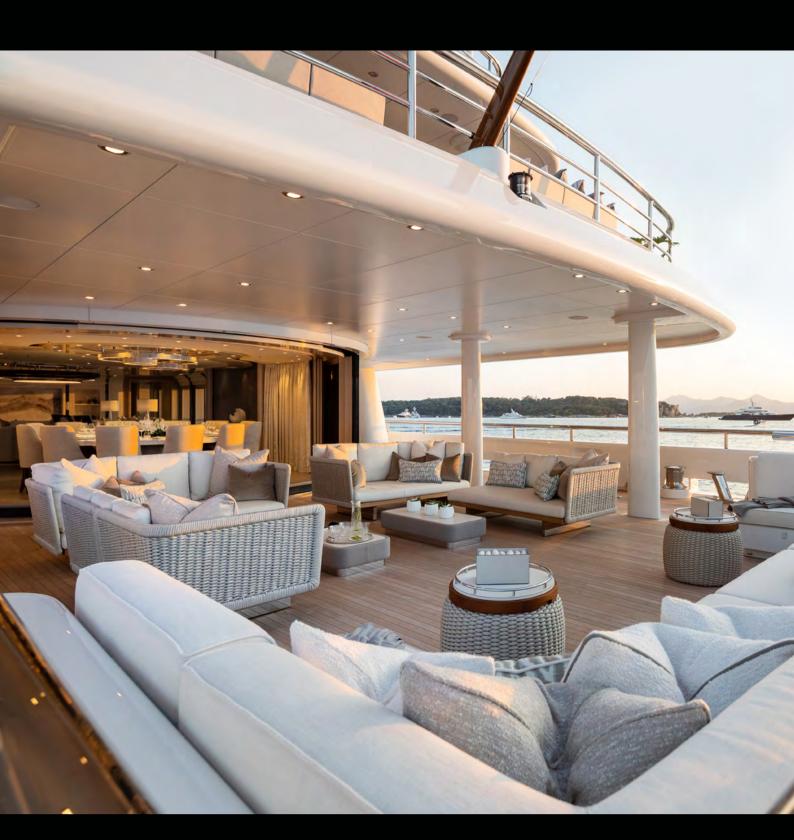
## NANO-CERAMIC®

WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS



## 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.



02



## 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, nearpermanent, 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 superdurable layer of NANO-CERAMIC Thin Film Coating.



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05

### **Thin Film Clean & Protect**

04



#### One Step Polish **Max Gloss** Max Matte Steril Kit-Set Kit-Set Cleaner Scrub Cleaner Basecoat **Basecoat** Mineral Remover **Topcoat Topcoat** Pure Shine Shampoo Windshield Windshield Multi **5 Years+** Protection Cleaner **5 Years+** Protection Fabric Wood Stainless Hard Gloss Ceramic Leather Surface Stone Sealer Wax Steel Repellent Repellent Kanvas Renew Floor Alu Protector Protector Protector Protector Protector protect

## Every surface can always be like new ...



## S103 MAX GLOSS

### **Hull & Windshield Protection**

for gelcoat / glass / chrome

Product ID : SIO3150-MAX-GLOSS 3x1.7oz 10 Micron

 $\textbf{Consumption} \qquad : +/- \ 0.007oz/ft^2$ 

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 corrossion.
- 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-corrossion



Super hydrophobic



Self-cleaning stays cleaner longer



Anti-scratch

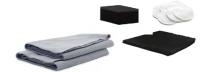


Visibility safety



Protects your investment

Applicator:



## SIO5 MAX MATTE

### **Hull & Windshield Protection**

for gelcoat / glass / chrome

**Product ID** : SIO5150-MAX-MATTE 3x1.7oz 5 Micron

**Consumption** :  $\pm$ /- 0.007oz/ft<sup>2</sup>

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 corrossion.
- 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.

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How to use: Page 20



Easy to apply



**Cut cleaning costs** 



Anti-water spot Anti-corrossion



Super hydrophobic



Self-cleaning stays cleaner longer



Anti-scratch



Visibility safety



Protects your investment

Applicator.



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

## SIEP

## **One Step Polish** high gloss / zero swirl

**Product ID** : 0.017oz/ft<sup>2</sup> Consumption

Used for : Gelcoat, glass and acrylic

SKU-40201008-5.5INCH SKU-40201408-3.0INCH

SKU-40201206-5.5INCH

SKU-40201101-5.5INCH SKU-40201501-3.0INCH



SKU-40201702-3.0INCH

: STEPG250 8.5oz

**Application field** : Marine

Only this High Quality Polish Compoud 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

# Applicator.

## CLEAN

## **Steril Cleaner**

for hard surfaces

**Product ID** : CLEAN0500 16oz / CLEAN5000 1.32gal

CLEAN020L 5gal

: +/- 0.01oz/ft<sup>2</sup> Consumption

Used for : Clearcoat, gelcoat, glass, chrome, mirrors

Application field : Marine

100% Steril

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



Easy to apply spray &wipe



Indoor Outdoor



Remove grease



100% Steril



No streaking

Applicator:



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## SIRP

## **Repellent Protector**

for glass / ceramics / mirrors

Product ID : SIRP0500 16oz / SIRP5000 1.32gal

SIRP020L 5gal

 $\textbf{Consumption} \qquad : \text{+/- 0.007oz/ft}^2$ 

**Used for** : Glass, acrylic, chrome, vinyl

**Application field**: Shower places.

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.

Will last12 washes



How to use: Page 20



Easy to apply



Indoor Outdoor



**Cut cleaning costs** 



Anti-water spot



hydrophobic



Self-cleaning Stays cleaner longer



Visibility Safety

Applicator.



## 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:





## WSRE

### **Mineral Remover**

for hard surfaces

Product ID : WSRE0500 16oz / WSRE5000 1.32gal

WSRE020L 5gal

 $\begin{tabular}{ll} \textbf{Consumption} & : +/- \ 0.007oz \ /ft^2 \\ \textbf{Used for} & : Hard surfaces \\ \end{tabular}$ 

**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.

- WRSE is anti-corrosion and safe to use on all hard surfaces.
- WRSE 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 spotting & 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.

## SCRUB

### **Scrub Cleaner**

for hard surfaces







Product ID SCRUB0250 8.5oz / SCRUB5000 1.32gal

SCRUB020L 5gal

 $\begin{tabular}{ll} \textbf{Consumption} & : +/- \ 0.007oz \ /ft^2 \\ \textbf{Used for} & : Hard \ surfaces \\ \end{tabular}$ 

**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.



Non-scratching

Applicator:



Leaves no scratches behind after treatment

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014









Untreated

After treatment

## 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



Spils are easy to remove



Cleaner for longer

Applicator.

Safe to use does not harm the surface



## **Gloss Sealer** for hard surfaces

**Product ID** :SIGS0500 16oz / SIGS5000 1.32gal

SIGS020L 5gal

 $\textbf{Consumption} \hspace{1.5cm} : \text{+/- 0.007oz/ft}^2$ 

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





## SIFP

### **Floor Protector**

for teak wood

Product ID : SIFP1000 1L / SIFP5000 5L / SIFP020L 20L Consumption : +/- 0.017oz/ft<sup>2</sup> or ready to use 0.17oz/ft<sup>2</sup> **Used for** : Marble / granite / tile / wood flooring

**Application field** 

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.





Indoor Outdoor



Easy to apply



Hydrophobic: Water & oil repellent



**Cut cleaning costs** 



Stays cleaner longer



Breathable & flexible



Superior hardness



Protects 2 times longer than other solutions.





## SI07

### **Protector**

for stainless / aluminum / chrome



How to use: Page 20

Product ID : SIO70KIT 1oz :+/- 0.007oz /ft<sup>2</sup> Consumption : +/- 150ft<sup>2</sup> Reachable area

Used for : Stainless steel, aluminum, chrome, paint, varnish

**Application field** : Marine

SIO7 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.



Indoor Outdoor



Cut cleaning time



hardness



Super hydrophobic



**Anti-corrosion** 



Anti-fingerprint



Self-cleaning Cleaner longer

Aplikator:





Expected Life Duration up to 5 years+

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## S108

### **Protector**

natural wood / natural stone

**Product ID** : SIO80500 16oz / SIO85000 1.32gal

SIO8020L 5gal

**Consumption** :  $\pm -0.14$ oz/ft<sup>2</sup>

**Used for** : Natural stone, lacquered wood

**Application Field**: Marine

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 wallsare 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



How to use: halaman 20



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/ft² (leather) 0.014oz/ft² (textile) **Used for** : Fabric, leather, carpets and canvas

**Application field** : Marine

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)

How to use: halaman 20



Easy to apply clean & dry & spray



Sprayable



Transparent original colours remain



Indoor & outdoor use



Breathable & flexible



Hydrophobic reppel water & oil



Easy to clean



Cleaner for longer

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### **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 haz e 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 stubb 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, devide 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 SI03-SI05-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 arround 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 rubb 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).













## 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 repport 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%.

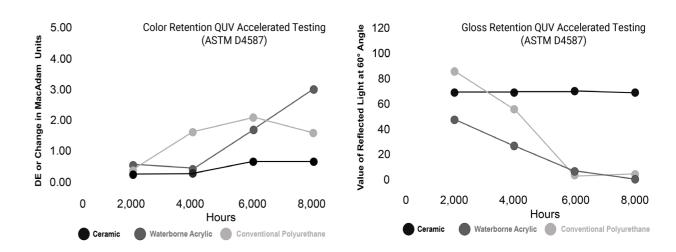
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated 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 <a href="https://example.com/here-forthe-left-shape-new-market-s

## 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.

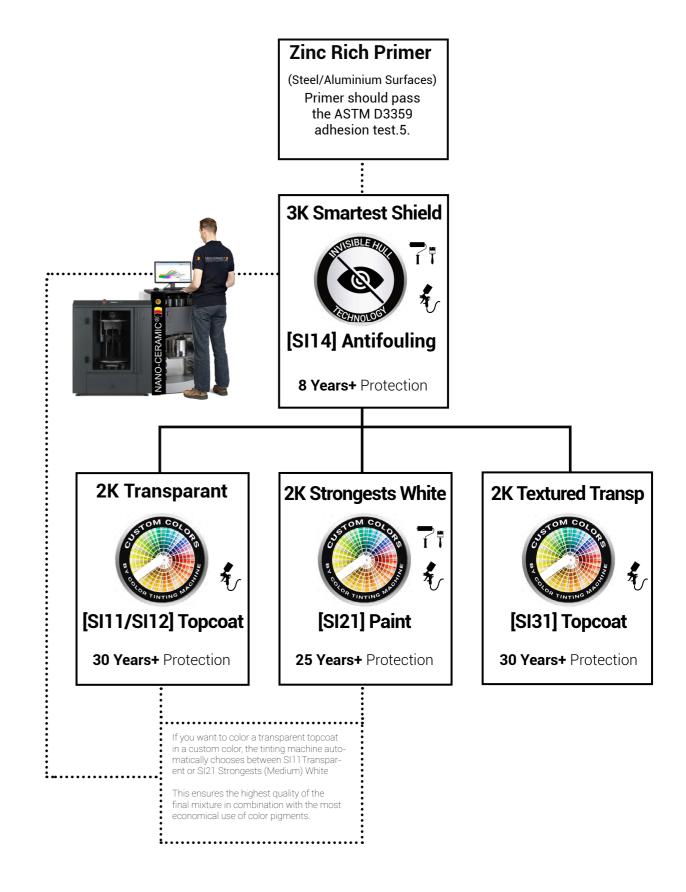
Conventional gelcoats are a mixture with Epoxy or Polyurethane resins, of which the quality of resin and pigments are the most important factor in the ultimate strength. Most have a lifespan of 15 years, with hardness, color and gloss retention (sun fading) and manual mixing towards consistent quality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

## **Quality Comparison with traditional coating/paints.**

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

|                               | Acrylic           | Epoxi      | Polyurethane      | Ceramic    |
|-------------------------------|-------------------|------------|-------------------|------------|
| Characteristics               | ,                 | ·          | •                 |            |
| Primer                        | Yes               | Yes        | Yes               | No         |
| Adhesion Strength             | Poor              | Poor       | Poor              | Excellent  |
| Cross Cut Test                | Poor              | Good       | Poor              | Excellent  |
| Abrasion Resistance           | Poor              | Good       | Poor              | Excellent  |
| UV Radiation Resistance       | Average           | Poor       | Good              | Excellent  |
| Artificial Atmospheric Agents | Poor              | Good       | Good              | Excellent  |
| Colour Retention              | Average           | Average    | Poor              | Excellent  |
| Gloss Retention               | Poor              | Poor       | Poor              | Excellent  |
| Chemical Resistance           | Good              | Good       | Poor              | Excellent  |
| Severe Chemical Attack        | Poor              | Average    | Poor              | Excellent  |
| Temperature Resistance        | 196°F             | 350°F      | 505°F             | 600°F      |
| Thermal Shock Resistance      | Good              | Poor       | Good              | Excellent  |
| Carbon Dioxide Permeability   | Poor              | Good       | Poor              | Excellent  |
| Permeability water vapour     | Average           | Good       | Average           | Excellent  |
| Water Absorption Resistance   | 1%                | 2%         | 3%                | 0%         |
| Aging at 70°C                 | Poor              | Good       | Average           | Excellent  |
| Adhesion Strenght Pull-off    | Average           | Good       | Poor              | Excellent  |
| Impact Resistance             | Average           | Good       | Poor              | Excellent  |
| Anti-Graffiti                 | No                | No         | No                | Yes        |
| Anti-Termite (Wood)           | No                | No         | No                | Yes        |
| Hydrophobic Self Cleaning     | No                | No         | No                | Yes        |
| Easy to Clean                 | No                | No         | No                | Yes        |
| Total Solar Reflectance (TSR) | <b>60</b> (white) | 60 (white) | <b>60</b> (white) | 88 (white) |
| Expected Lifetime inYears     | <7                | <15        | <15               | 30+        |

## **Ceramic Coating & Paint System**





## **Topcoat Transparent**

for glossy surfaces

**Product ID** : SI112000 67oz / 4.2 lbs

: 3 layers  $0.06lbs/ft^2 - 0.96oz/ft^2 = 3 mil/ 70ft^2$ Consumption Reachable area : 2 layers 0.04lbs/ft<sup>2</sup> - 0.64oz/ ft<sup>2</sup> = 2 mil/140ft<sup>2</sup> : 1 layer 0.02lbs/ft<sup>2</sup> - 0.32oz/ ft<sup>2</sup> = 1 mil/210ft<sup>2</sup>

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



Easy to apply Repaintable



Cut maintenance costs



Anti-water spot Anti-corrossion

Permanent

hydrophobic



Self-cleaning stays cleaner longer



Anti-scratch



Impact Resistance 2lbs/2.6ft



Protects your investment

SI12 2-Component (2K)

## **Topcoat Transparent**

for matted surfaces

Hardness

**Product ID** : SI112000 67oz / 4.4 lbs

: 3 layers 0.06lbs/ft<sup>2</sup> - 0.96oz/ ft<sup>2</sup> = 3 mil/ 70ft<sup>2</sup> Consumption Reachable area : 2 layers 0.04lbs/ft<sup>2</sup> - 0.64oz/ ft<sup>2</sup> = 2 mil/140ft<sup>2</sup> : 1 layer 0.02lbs/ft<sup>2</sup> - 0.32oz/ ft<sup>2</sup> = 1 mil/210ft<sup>2</sup>

: 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



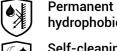
Easy to apply Repaintable



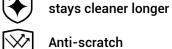
**Cut maintenance costs** 



Anti-water spot Anti-corrossion



hydrophobic Self-cleaning



Anti-scratch



**Impact Resistance** 2lbs/2.6ft



Protects your investment

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SI21 2-Component (2K)

### **Paint The Strongest White**

for glossy surfaces

**Product ID** : SI212000 67oz / 5.3 lbs

: 3 layers 0.044lbs/ft<sup>2</sup> - 0.56oz/ ft<sup>2</sup> = 3 mil/120ft<sup>2</sup> Consumption Reachable area : 2 layers 0.030lbs/ft<sup>2</sup> - 0.37oz/ ft<sup>2</sup> = 2 mil/160ft<sup>2</sup> : 1 layer 0.014lbs/ft<sup>2</sup> - 0.19oz/ ft<sup>2</sup> = 1 mil/240ft<sup>2</sup>

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-corrossion

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

: 2 layers  $0.08lbs/ft^2-1.30oz/ft^2 = 8 mil/140ft^2$ Consumption : 1 layers 0.04lbs/ft<sup>2</sup>-0.65oz/ft<sup>2</sup> = 4 mil/280ft<sup>2</sup> Reachable area

:H7 Hardness

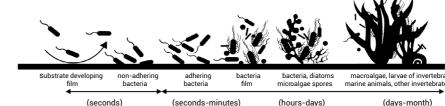
Used for : Gelcoat, fiberglass, steel, aluminium, plastics, wood

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 Technoloy** 



**Cut maintenance costs** 



Organic Cupper 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 inpact resistant

Article Nr. : SI312000 67oz / 4.6 lbs

: 3 layers  $0.050lbs/ft^2 - 0.76oz/ft^2 = 3 mil/ 90ft^2$ Consumption 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 absorbtion, waterproof, insulation and heat rejecting

Expected Life Duration up to 30 years+

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How to use: Page 31



Easy to apply Repaintable



**Cut maintenance** 



Anti-water spot Anti-corrossion



hydrophobic

Permanent



Self-cleaning stays cleaner longer



Anti-scratch



Visibility safety



Protects your investment



Impact Resistance 2lbs/2.6ft

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### **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.

Outfit/Applicators:

Fresh Air Respirator

**Paint Suit** 

### 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 wit 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





Nitrile gloves



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







**Paint Roller** (Microfiber)

Respirator

**Paint Brush** (acrylic)

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## SIX1 2-Component (2K)

## **Primer Micro Zinc Grey**

surface modifier

Article Nr. :SIX12000 67oz/8lbs

: 2 layers  $0.030lbs/ft^2 - 0.37oz/ft^2 = 2 mil/160ft^2$ Consumption : 1 layer 0.014lbs/ft<sup>2</sup> - 0.19oz/ ft<sup>2</sup> = 1 mil/240ft<sup>2</sup> Reachable area

Hardness : H7

: Steel, Aluminium and other organic surfaces Used on

**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



### **Primer Wood Grain Filler**

surface modifier

Article Nr. :SIX22000 67oz/7lbs

: 2 layers 0.04lbs/ft<sup>2</sup> - 0.64oz/ ft<sup>2</sup> = 2 mil/140ft<sup>2</sup> Consumption Reachable area : 1 layer 0.02lbs/ft<sup>2</sup> - 0.32oz/ ft<sup>2</sup> = 1 mil/210ft<sup>2</sup>

: H4 Hardness Used on : Wood

: Buildings, marine, airports, bridges **Application area** 

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** 





Fast Repaintable



**Excellent adhesion** 



**VOC Free** 



Micro Zinc & Wood Grain Filler



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## 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/ACCI

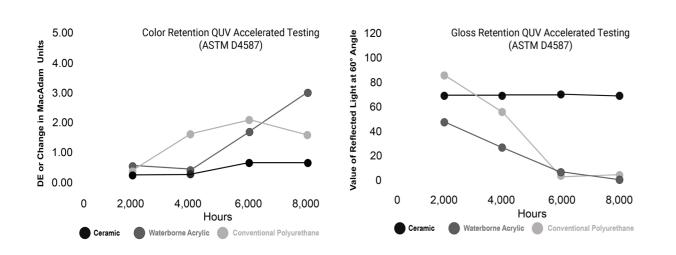
## slow down flash time or speed up curing

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

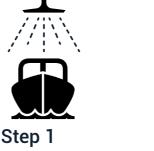
If your application need longer flash time (longer time to build up the layer with a second or third coat you can add the RETA Retarder.

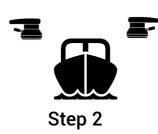
In case you want to spead up the curing process you can add the high efficient ACCL Accelerator.

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



## **Maintenance Plan Thin Film Coating**







Step 1 Washing

Polishing

Step 3 Steril Cleaner



after application

Step 4 Basecoat Curing time: 2 hours

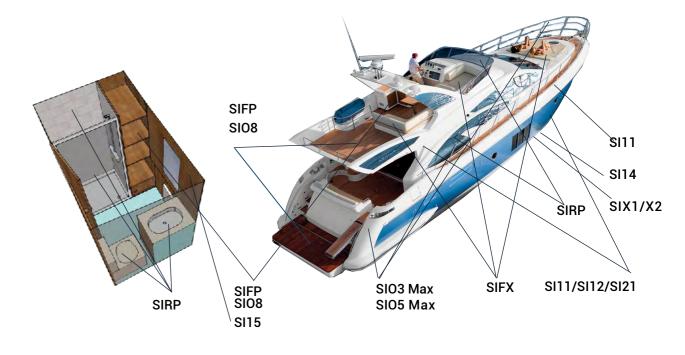


Step 5 Nano Laver Hydrophobic Topcoat



Step 6 Curing time: 6 hours in ambient temperature

## Where to use our coatings:



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### **Color card**

Traffic white

# SI13 White Egg-Shell (Flat Finish) 15/25 (20/60°) SI41 Textured White Semi Gloss 41/69 (20/60°) SI21 White Gloss 49/77 (20/60°) SI22 White Satin 33/59 (20/60°) Pearl dark grey Pure white

Mahogany braun

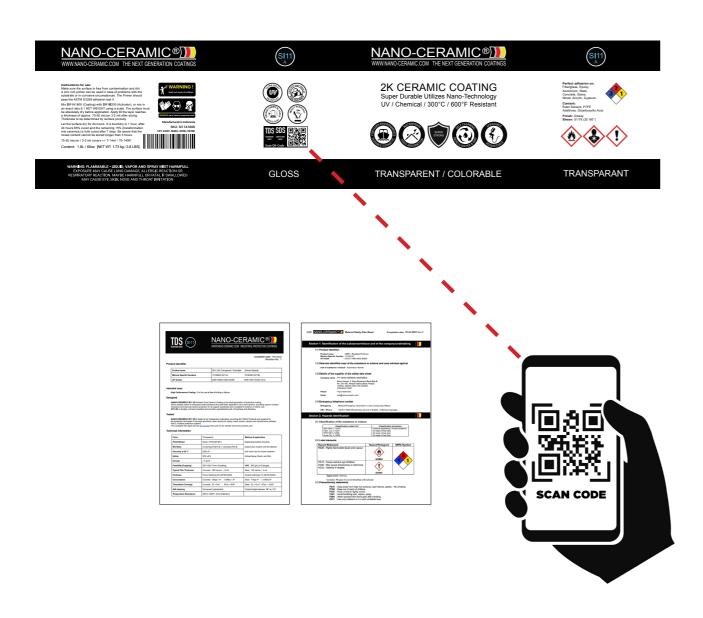




Other colors need minimal 100kg

Antifouling SI14 Color 31/41 (20/60°) Signal Grey

## **Scan QR Code for TDS and SDS**



## **Video Application & (Test) Results**











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Notes:





## The Leader in Durability

Did you know that our
Permanent Coating System
repels water and dirt and
lasts 30 Years+?

Dealer