

# NANO-CERAMIC®



WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS



**Military/Navy** Permanent Coating Systems

## What makes NANO-CERAMIC Permanent Coating System so durable?

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

NANO-CERAMIC permanent coating system is 600°F resistant and more than 4 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.

## Zero Maintenance for decades to come!

Our NANO-CERAMIC permanent coating is (non PFAS) 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 System be applied on any surface?

The NANO-CERAMIC permanent coating system 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 System self-cleaning?

NANO-CERAMIC permanent coating system 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 system 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%.

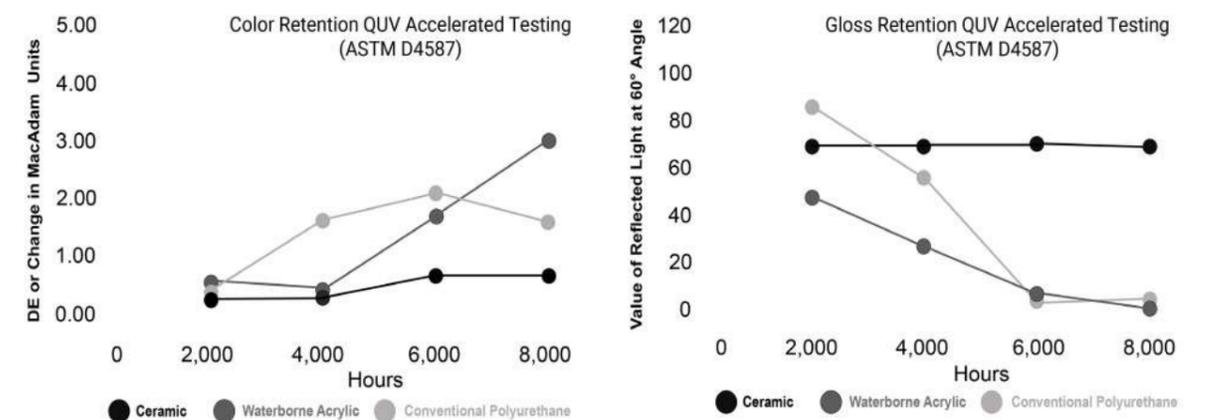
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated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

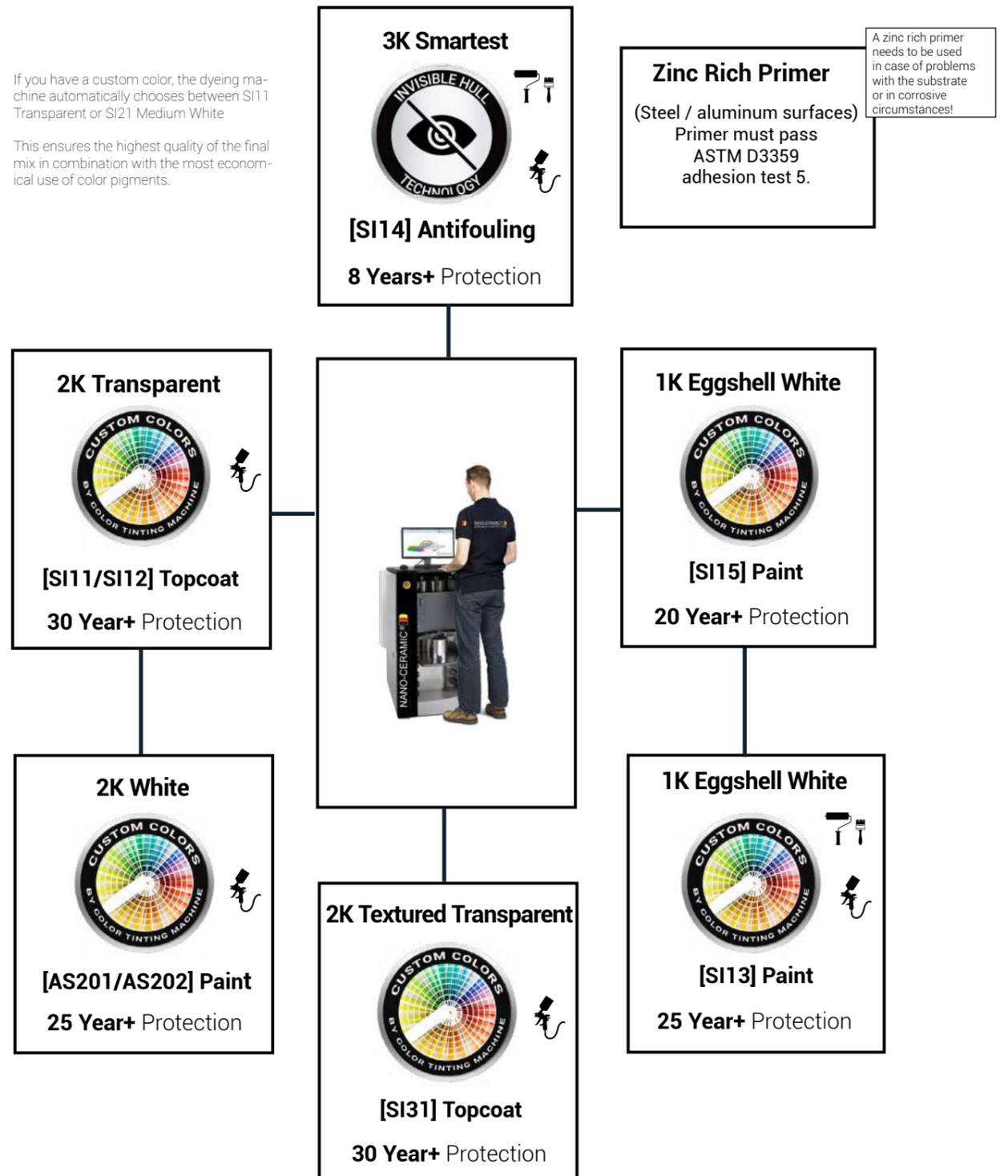
In case written in bold font it means existing shortcomings in quality.

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

## Ceramic Coating & Paint System

If you have a custom color, the dyeing machine automatically chooses between SI11 Transparent or SI21 Medium White

This ensures the highest quality of the final mix in combination with the most economical use of color pigments.



# SI11/SI12 2-Component (2K)

## Ceramic Topcoat Transparent for glossy or matt surfaces

- Product ID** : SI112000 67 oz / 4.2 lbs Transparent Gloss  
: SI122000 67 oz / 4.4 lbs Transparent Matte
- Consumption** : 3 layers 0.06 lbs/ft<sup>2</sup> - 0.96 oz/ft<sup>2</sup> = 3 mil / 70 ft<sup>2</sup>
- Reachable area** : 2 layers 0.04 lbs/ft<sup>2</sup> - 0.64 oz/ft<sup>2</sup> = 2 mil / 140 ft<sup>2</sup>  
: 1 layer 0.02 lbs/ft<sup>2</sup> - 0.32 oz/ft<sup>2</sup> = 1 mil / 210 ft<sup>2</sup>
- Hardness** : H9
- Used on** : Fiberglass, Aluminium, Steel Stone, Marble, Wood, Ceramics, Fiberglass,
- Application area** : Buildings, airports, offshore structures, bridges, tunnels, ships, tanks, vehicles, etc.



How to use: Page 38

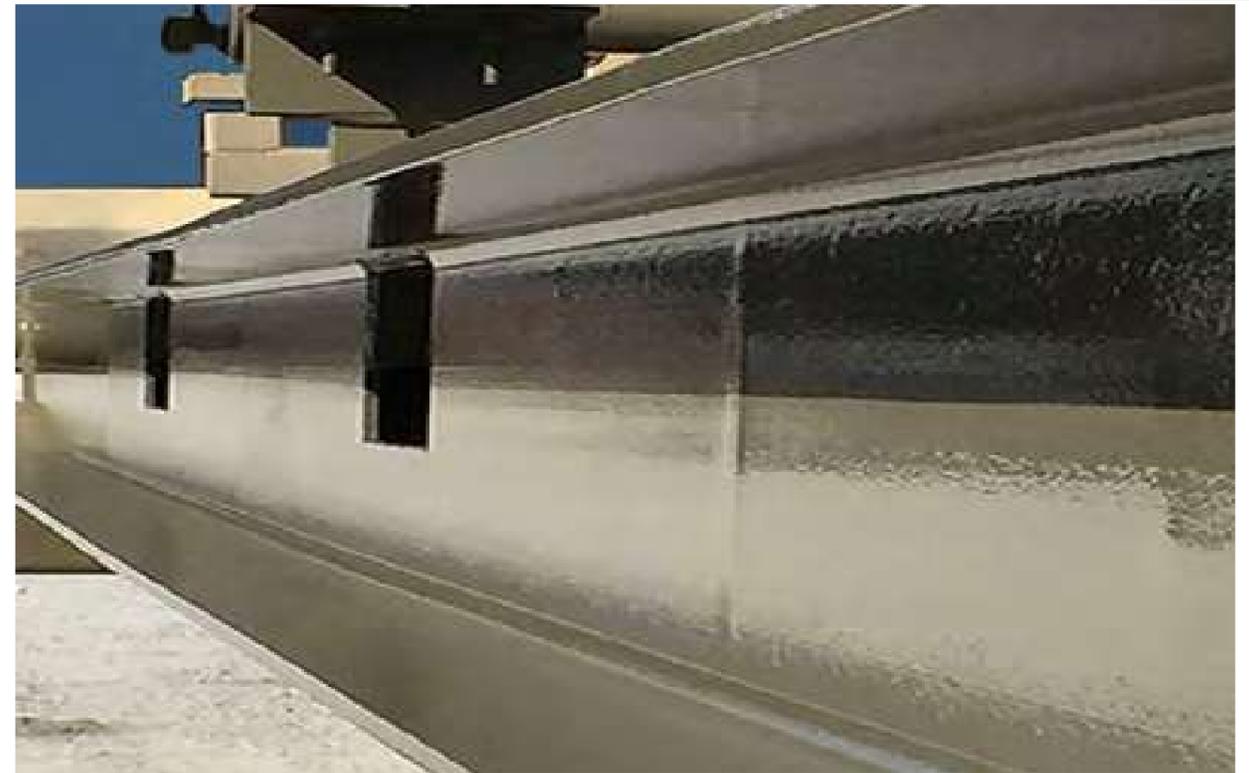
SI11/SI12 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating has an outstanding hydrophobic effect.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- This coating does not absorb any water
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 600°F. suitable for making walls fire retardant and is most best solution to make rooftops waterproof

Expected Life Duration up to 30 years+

-  **Near-permanent**
-  **Anti-corrosion**
-  **Permanent hydrophobic**
-  **Anti-pollution**
-  **Anti-algae**
-  **UV protection**
-  **Self-cleaning Stays cleaner longer**
-  **Impact Resistance 30"-2lbs**
-  **Thermal Shock-Resistant**



## Permanent Hydrophobic - Self Cleaning



# SI21/SI22 2-Component

## Ceramic Paint White for glossy and satin surfaces

<b>Product ID</b>	: SI212000 67 oz / 5.3 lbs : SI222000 67 oz / 5.5 lbs
<b>Consumption</b>	: 3 layers 0.044 lbs/ft <sup>2</sup> - 0.56 oz/ft <sup>2</sup> = 3 mil / 120 ft <sup>2</sup>
<b>Reachable area</b>	: 2 layers 0.030 lbs/ft <sup>2</sup> - 0.37 oz/ft <sup>2</sup> = 2 mil / 160 ft <sup>2</sup> : 1 layer 0.014 lbs/ft <sup>2</sup> - 0.19 oz/ft <sup>2</sup> = 1 mil / 240 ft <sup>2</sup>
<b>Hardness</b>	: H8
<b>Used on</b>	: Gelcoat, fiberglass, steel, aluminium, plastics, wood, concrete
<b>Application area</b>	: Buildings, airports, offshore structures, bridges, tunnels, ships, tanks, vehicles, etc.



How to use: Page 38

SI21/SI22 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 has an outstanding hydrophobic effect.
- 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 600°F. suitable for making walls fire retardant and is most best solution to make rooftops waterproof and heat reflective.
- Superior alternative for Epoxi flooring or repaints .
- Repaints of ceramic bathroom tiles.
- Zero absorbtion, waterproof.



Expected Life Duration up to 25 years+



## Thermal Shock - Impact Resistant



# SI31 2-Component (2K)

## Textured Transparent Semi Gloss antislip - high impact resistant

<b>Product ID</b>	: SI312000 67 oz / 4.6 lbs
<b>Consumption</b>	: 3 layers 0.050 lbs/ft <sup>2</sup> - 0.76 oz/ ft <sup>2</sup> = 3 mil / 90 ft <sup>2</sup>
<b>Reachable area</b>	: 2 layers 0.033 lbs/ft <sup>2</sup> - 0.51 oz/ ft <sup>2</sup> = 2 mil /180 ft <sup>2</sup> : 1 layer 0.017 lbs/ft <sup>2</sup> - 0.25 oz/ ft <sup>2</sup> = 1 mil /270 ft <sup>2</sup>
<b>Hardness</b>	: H9
<b>Used on</b>	: Gelcoat, fiberglass, steel, aluminium, : plastics, wood, virtually any surface.
<b>Application area</b>	: 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.

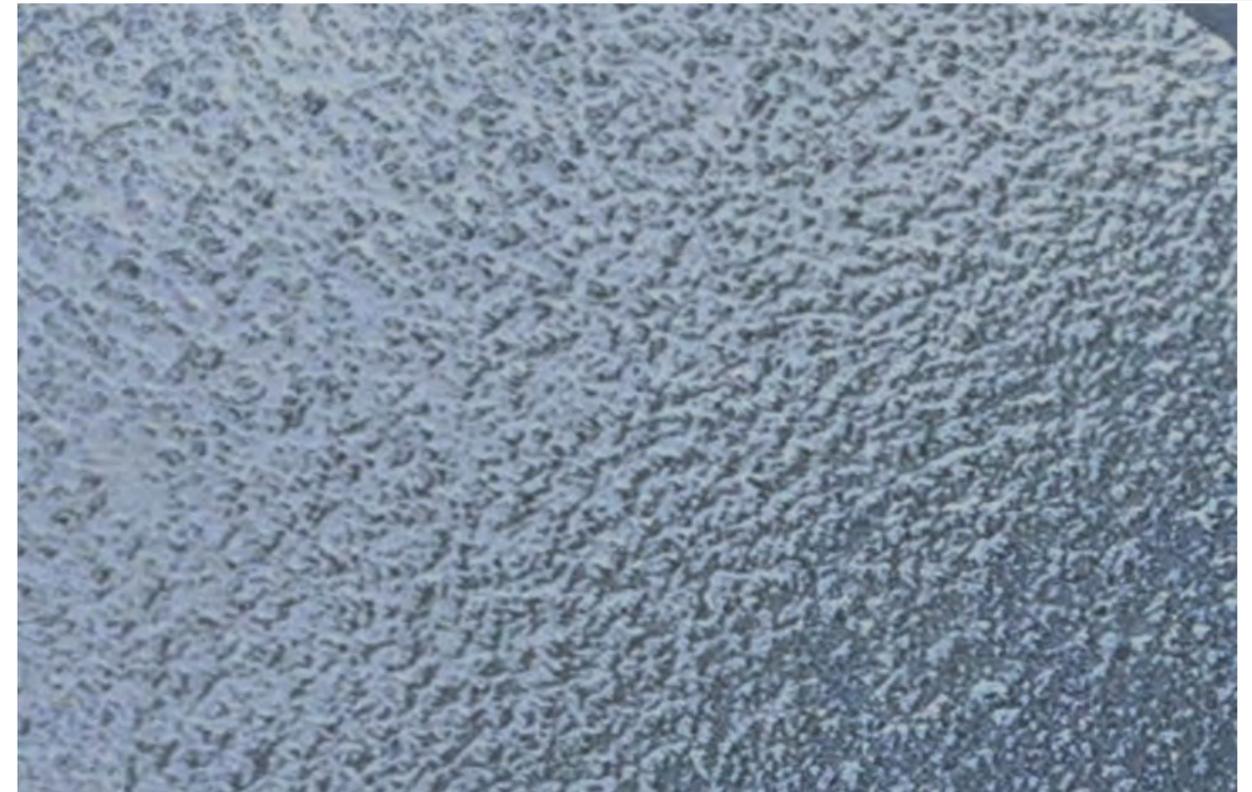
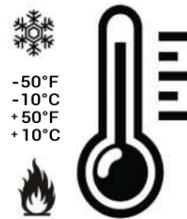
Known for its exceptional durability, this coating easily applies to any organic surface without needing a primer. Its textured design makes it perfect for anti-slip needs.

- 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 38



## Anti Slip - Noise Reduction



-  **Easy to apply**  
**Repaintable**
-  **Cut maintenance**
-  **Anti-water spot**  
**Anti-corrosion**
-  **Permanent hydrophobic**
-  **Self-cleaning**  
**stays cleaner longer**
-  **Anti-scratch**
-  **Visibility safety**
-  **Protects your investment**
-  **Impact Resistance**  
**30"-2lbs**
-  **Saves 10-20% on electricity**

# SI14 3-Component (3K)

## Ceramic Smart Antifouling

Transparent black/red/blue/grey

<b>Product ID</b>	: SI141000-BK-RD-BL-GR 32 oz / 2.4 lbs : SI144000-BK-RD-BL-GR 1 gal / 9.5 lbs
<b>Consumption</b>	: 2 layers 0.08 lbs/ft <sup>2</sup> -1.30 oz/ft <sup>2</sup> = 8 mil / 140 ft <sup>2</sup>
<b>Reachable area</b>	: 1 layer 0.04 lbs/ft <sup>2</sup> -0.65 oz/ft <sup>2</sup> = 4 mil / 280 ft <sup>2</sup>
<b>Hardness</b>	: H7
<b>Used for</b>	: Concrete Gelcoat, fiberglass, steel, aluminium, plastics, wood, virtually any surface.
<b>Application area</b>	: Offshore structures, bridges, ships, tanks, land walls



How to use: Page 38

SI14 is a super strong strong and sleek 3-component antifouling system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in a superior protection of the surface.

The coating tricks microorganisms into perceiving plain water in front of them, rather than a ship's hull; as a result they often make no attempt to settle on the hull.

Due to a combination of hydrophobic silicone and hydrophilic polymers they can not longer clearly recognize the surface, nor distinguish the hull unambiguously from sea water.

Three simple steps: Clean, Dry, and Apply.

- Easily releases algae
- Super smooth self-polishing surface
- Organic Copper and Tin Non Biocidal release
- This coating has an outstanding hydrophobic effect.
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 600°F

Expected Life Duration up to 8 year+

-  Easy to apply  
Repaintable
-  Cut maintenance costs
-  Organic Copper and Tin  
Non Biocidal
-  Super Sleek Surface  
Algae release <6knots
-  Hydrophobic  
Hydrophilic
-  Self-cleaning  
stays cleaner longer
-  Save fuel
-  Impact Resistance  
30" - 2lbs
-  Thermal Shock-  
Resistant



## Super Smooth - Saves Fuel



# SI13 2-Component (2K)

## Ceramic Paint for egg-shell surfaces



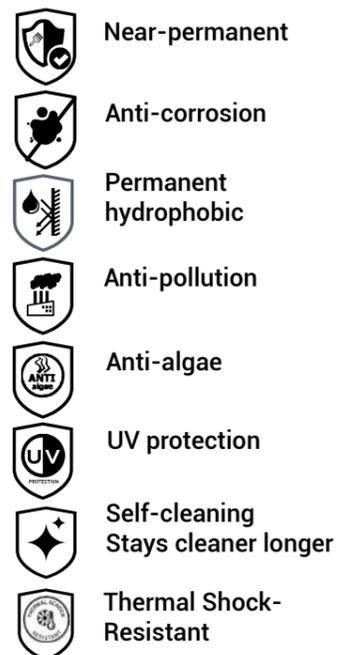
<b>Product ID</b>	: SI132000 67 oz / 7.3 lbs White
<b>Consumption</b>	: 2 layers 0.050 lbs/ft <sup>2</sup> - 0.48 oz/ft <sup>2</sup> = 3.5 mil / 140 ft <sup>2</sup>
<b>Reachable area</b>	: 1 layer 0.025 lbs/ft <sup>2</sup> - 0.24 oz/ft <sup>2</sup> = 1.8 mil / 280 ft <sup>2</sup>
<b>Hardness</b>	: H7
<b>Used for</b>	: The system can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted, walls, ceilings, indoors, or outdoor overhang
<b>Application area</b>	: Buildings, airports, tunnels, hotels, private housing etc.

**How to use:** Page 38

SI13 is an incredibly strong 2-component eggshell 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 has an outstanding hydrophobic effect.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.



Expected Life Duration up to 25 year+



## Easy to clean - Egg-shell



# SI15

1-Component (1K)

## Ceramic Paint White for egg-shell surfaces



<b>Product ID</b>	: SI152000 67 oz / 6.6 lbs White
<b>Consumption</b>	: 2 layers 0.048 lbs/ft <sup>2</sup> - 0.48 oz/ ft <sup>2</sup> = 3.5 mil/140 ft <sup>2</sup>
<b>Reachable area</b>	: 1 layer 0.024 lbs/ft <sup>2</sup> - 0.24 oz/ ft <sup>2</sup> = 1.8 mil/280 ft <sup>2</sup>
<b>Viscosity</b>	: 20
<b>Hardness</b>	: H6
<b>Used for</b>	: The system can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, walls, ceilings, indoors, or outdoor overhang
<b>Application area</b>	: Buildings, airports, tunnels, hotels, private housing etc.

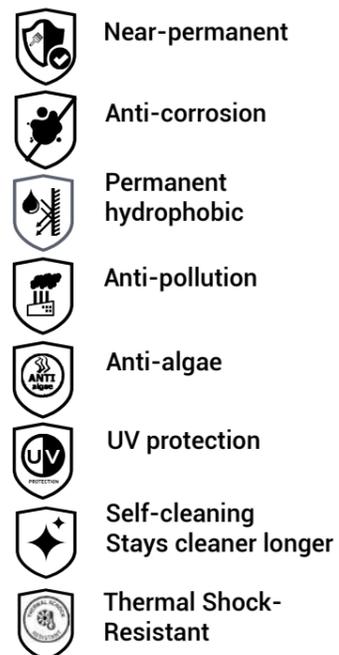
How to use: Page 38



SI15 is an incredibly strong 1-component eggshell 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 has an outstanding hydrophobic effect.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- 



Expected Life Duration up to 20 year+

## Easy to clean - Egg-shell



# Color mixing has never been so easy!!!

X- SMART is the modular version of the acclaimed dispenser series, extremely cost-effective and easy to operate, with a low maintenance

This color mixer has a robust and tubeless design, built with a patented pump technology (to reduce waste) and identical features, making it a highly advanced dispenser, ideally suited to reduced capacity.



Prisma-RT is a cloud-based innovative mobile color application compatible with the X-SMART dispenser. It brings the best of wireless technology without the associated investment costs in hardware.

Customers do not have to provide computers and other accessories or set up servers, eliminating the need for complicated and time-consuming installation and configuration.

This smart Prisma-RT device helps to fix prices and taxes and can print labels via Wi-Fi.



X-SMART Stabilizer plates



# 16 High Grade Coloring chemicals



**Titanium White**  
Masstone   
Tint   
844-0061 1.05 gal



**Quinacridone Red**  
Masstone   
Tint   
844-0451 32 oz



**Scarlet Red**  
Masstone   
Tint   
844-0526 32 oz



**Lead Free Orange**  
Masstone   
Tint   
844-0982 32 oz



**Trans Red Oxide**  
Masstone   
Tint   
844-1054 32 oz



**Red Oxide**  
Masstone   
Tint   
844-1063 32 oz



**Burnt Umber**  
Masstone   
Tint   
844-1352 32 oz



**Trans Yellow Oxide**  
Masstone   
Tint   
844-1852 32 oz



**Yellow Oxide**  
Masstone   
Tint   
844-1863 32 oz



**Lead Free Med Yellow**  
Masstone   
Tint   
844-2555 32 oz



**Yellow**  
Masstone   
Tint   
844-2826 32 oz



**Organic Yellow**  
Masstone   
Tint   
844-2852 32 oz



**PHTHALO Green**  
Masstone   
Tint   
844-5558 32 oz



**Quinacridone Violet**  
Masstone   
Tint   
844-9451 32 oz



**Lamp Black**  
Masstone   
Tint   
844-9955 32 oz



**PHTHALO BLUE**  
Masstone   
Tint   
844-7262 32 oz

# Color card

# Other colors need minimal 220 lbs

**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")

Original

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")

Original

Fire red

RAL 3000

Burgundy

RAL 7036

Platinum

RAL 9005

Jet Black

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")

Transparent

RAL 9005

Jet Black

RAL 3001

Signal Red

RAL 9002

Ultra marine blue

RAL 7004

Signal Grey

Light stone

RAL 6031

Bronze green

RAL 4451

Brunswick green

RAL 7016

Dark sea grey

RAL 5008

[RAF] Blue grey

Transparent matte

RAL 7031

Blue grey

RAL 9005

Jet black

RAL 6005

NATO green

RAL 7024

Graphite grey

RAL 1015

Desert sand

Camo beige

Dark grey camo

Dark brown camo

Olive drap

Very dark drap



## What is NANO-CERAMIC UVA Topcoat?

NANO-CERAMIC® UVA Topcoat is a revolutionary low-VOC, non-PFAS, self-leveling protective coating system that forms an ultra-hard, glass-like hydrophobic barrier—ideal for high-performance marine environments.

Specifically engineered for extreme durability and a sleek, high-gloss finish, UVA Topcoat delivers exceptional resistance to saltwater, intense UV exposure, biofouling, and harsh marine chemicals like hydrofluoric acid (HF), hydrochloric acid, and citric acid—all while remaining completely safe and compliant for onboard use (Food contact safe).

Powered by advanced nanotechnology, UVA Topcoat extends the lifespan of marine surfaces by protecting polyester, epoxy, polyurethane, and acrylic resins steel, aluminum, composites, and wood from corrosion, surface breakdown, and environmental wear. —making it an exceptionally versatile solution for virtually any surface.

## Why UVA Topcoat is a Game-Changer in Marine Protection?

For decades, protective coatings like epoxy, polyurethane (PU), and acrylic have been the industry standard. However, they all share a critical weakness—UV degradation. Prolonged exposure to sunlight causes these coatings to yellow, crack, and deteriorate, leading to costly maintenance and premature failures.

## Where can UVA Topcoat be applied in Marine use?

UVA Topcoat is highly versatile and suitable for a wide range of marine applications:

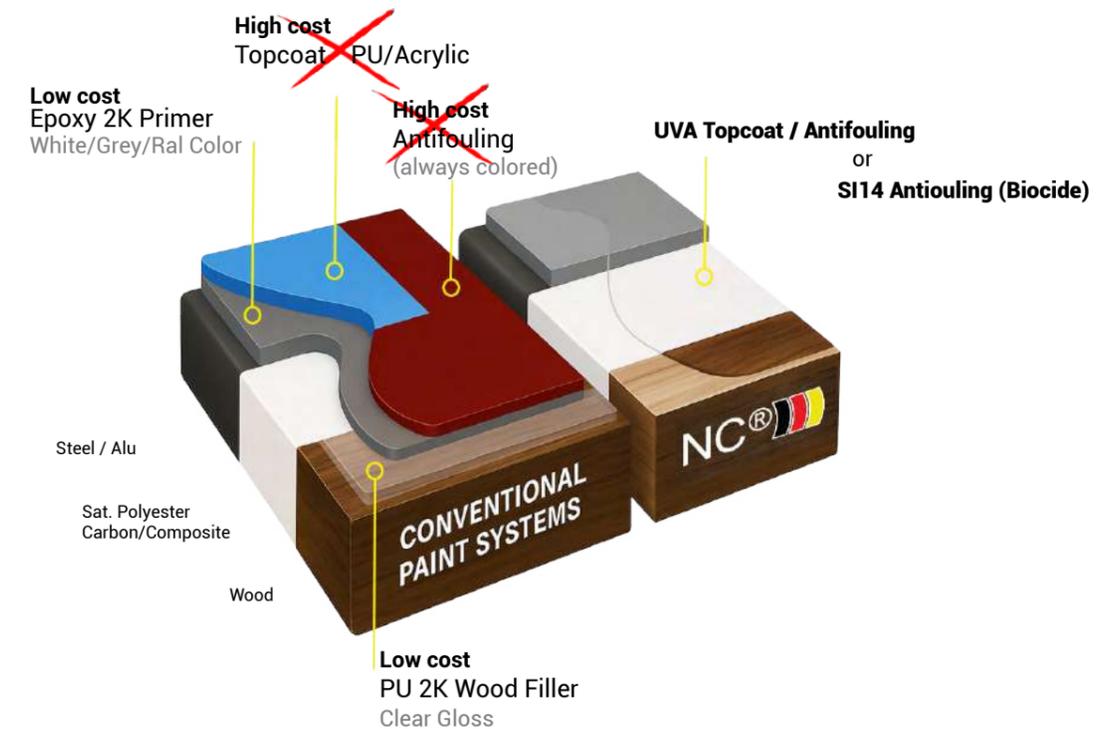
- Yachts & Boats – Hulls, decks, topsides, and superstructures
- Speedboats – UV protection and ultra-slick finish for high-performance watercraft
- Marine Infrastructure – Docks, piers, pontoons, and submerged structures
- Ship Interiors – Tables, countertops, cabins, walls, and decorative panels
- Commercial Vessels – Outer hulls, ballast tanks, walkways, and engine rooms
- Antifouling Protection – Ideal for vessels in constant motion or those stored on land

Compatible with both new builds and retrofits, UVA Topcoat adapts to various marine substrates and operating conditions with ease.

## Can our hydrophobic coatings boost speed and cut fuel use?

Yes—our superhydrophobic sleek surface reduces drag by up to 23.4%, leading to 31% faster acceleration compared to uncoated surfaces and 27% faster than conventional antifouling coatings (Source: IPTEK ITS, 2023).

## How it Works



## Superior Performance at the Lowest Cost.

UVA Topcoat isn't just another coating—it's a next-generation solution that replaces complex and expensive multi-layer systems with a single, high-performance layer.

By applying directly over low-cost primers, UVA Topcoat eliminates the need for expensive finishing coats. Its smart chemistry and simplified process make traditional topcoat systems outdated by comparison.

Whether for industrial, marine, infrastructure, or decorative use, UVA Topcoat simplifies your process and multiplies your value—proving that true performance doesn't have to come at a high price.

## Freedom in Protection Years

Long-Lasting Protection, Layer by Layer

A single 6 µm (micron) layer applied using HVLP spray technology can provide up to 8 years of protection. Need more durability? Just add more layers—it's that simple.

Apply wet-on-wet: once the first coat flashes off (dry to the touch but still tacky), you can immediately apply the next. This method prevents trapped gases and creates a seamless, chemical-resistant film with hydrophobic properties—making surfaces easier to clean and maintain.

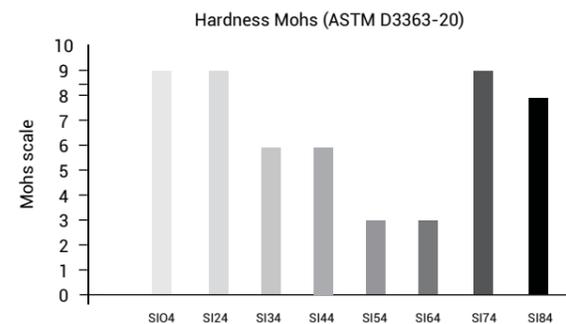
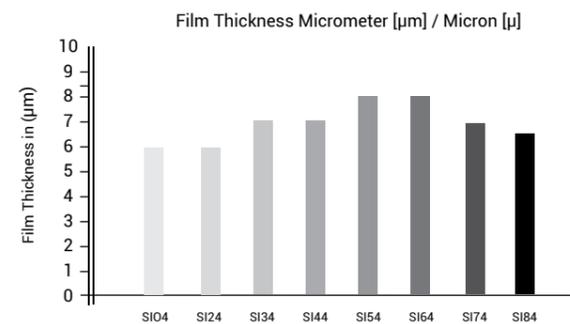
## Coverage & Application Efficiency

UVA Topcoat is engineered for maximum efficiency with minimal material use—delivering high-performance protection at a fraction of the volume required by traditional coatings.

Recommended usage is approximately ±0.025 lbs/ft<sup>2</sup> per layer (by wipe or spray), resulting in a film thickness of around 6 microns, with one liter covering up to 800 ft<sup>2</sup>.

## Color Tinting Option for Marine Applications

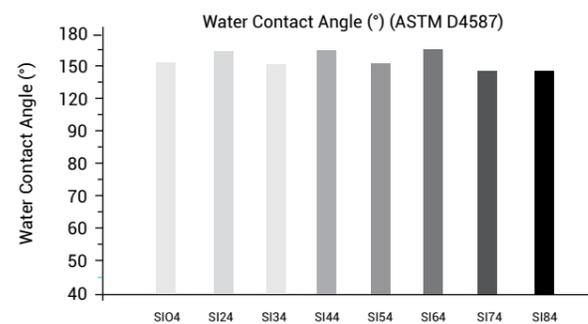
For customized aesthetics, UVA Topcoat can be tinted using our colorants on page 32-33. These high-performance, solvent-free pigments provide long-lasting color stability and UV resistance—perfect for marine environments where both protection and appearance matter. Ideal for yachts, decks, interiors, or any visible surface requiring a durable, colored finish without compromising the coating's hydrophobic and chemical-resistant properties.



## 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	UVA Topc all surfaces
Primer	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	<b>Yes</b>	No
Adhesion Strength	<b>Poor</b>	<b>Poor</b>	<b>Poor</b>	<b>Poor</b>	Excellent
Cross Cut Test	<b>Poor</b>	<b>Poor</b>	Good	<b>Poor</b>	Excellent
Abrasion Resistance	<b>Poor</b>	<b>Poor</b>	<b>Average</b>	<b>Poor</b>	Excellent
UV Radiation Resistance	<b>Average</b>	<b>Average</b>	<b>Poor</b>	Good	Excellent
Artificial Atmospheric Agents	<b>Poor</b>	<b>Poor</b>	Good	Good	Excellent
Colour Retention	<b>Average</b>	<b>Average</b>	<b>Poor</b>	<b>Poor</b>	Excellent
Gloss Retention	<b>Poor</b>	<b>Poor</b>	<b>Poor</b>	<b>Poor</b>	Excellent
Chemical Resistance	Good	Good	Good	<b>Poor</b>	Excellent
Severe Chemical Attack	<b>Poor</b>	<b>Poor</b>	<b>Average</b>	<b>Poor</b>	Excellent
Temperature Resistance	<b>140°F</b>	<b>196°F</b>	350°F	505°F	550°F
Thermal Shock Resistance	Good	Good	<b>Poor</b>	Good	Excellent
Carbon Dioxide Permeability	<b>Poor</b>	<b>Poor</b>	Good	<b>Poor</b>	Excellent
Permeability water vapour	<b>Average</b>	<b>Average</b>	Good	<b>Average</b>	Excellent
Water Absorption Rate	<b>5-15%</b>	<b>1%</b>	<b>2%</b>	<b>3%</b>	0%
Aging at 70°C	<b>Poor</b>	<b>Poor</b>	Good	<b>Average</b>	Excellent
Adhesion Strength Pull-off	<b>Poor</b>	<b>Average</b>	Good	<b>Poor</b>	Excellent
Impact Resistance	<b>Poor</b>	<b>Average</b>	Good	<b>Poor</b>	Excellent
Anti-Graffiti	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	Yes
Anti-Termite (Wood)	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	Yes
Hydrophobic Self Cleaning	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	Yes
Easy to Clean	<b>No</b>	<b>No</b>	<b>No</b>	<b>No</b>	Yes
Total Solar Reflectance (TSR)	<b>60</b> (white)	<b>60</b> (white)	60 (white)	<b>60</b> (white)	88 (white)
Expected Lifetime in Years	<b>&lt;7</b>	<b>&lt;7</b>	<5-15	<5-15	8/16/24



# SIO4 1-Component (1K)

## H9 UVA Topcoat Transparent for glossy surfaces

<b>Product ID</b>	: SIO41LUVA 32 oz / 2.03 lbs SIO405UVA 16 oz / 1 lbs
<b>Consumption</b>	: 3 layers +/- 0.075 lbs/ft <sup>2</sup> - 0.12 oz/ft <sup>2</sup> 18 micron = 200 ft <sup>2</sup>
<b>Reachable area</b>	: 2 layers +/- 0.050 lbs/ft <sup>2</sup> - 0.08 oz/ft <sup>2</sup> 12 micron = 400 ft <sup>2</sup>
	: 1 layer +/- 0.025 lbs/ft <sup>2</sup> - 0.04 oz/ft <sup>2</sup> 6 micron = 800 ft <sup>2</sup>
<b>Hardness/Cupping</b>	: H9 / Flexibility ISO 1520 >0.83"
<b>Used for</b>	: Fiberglass, steel, aluminium, plastics, wood
<b>Application field</b>	: Marine, exteriors, antifouling, interiors

SIO4 is an incredibly strong 1-component high performance coating and 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
- On the ship's hull, for higher speed and lower fuel use.
- 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 550°F
- Superb adhesion even on glass or stainless steel.
- Can be sprayed multilayered.
- Transparent, Opaque, solid-color or vibrant, transparent color finishes.

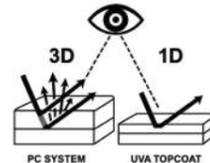
Expected life duration 8-16 or 24 Years (layer thickness)



How to use: Page 39



How does it look visually?



## Higher Speeds - Fuel Saving



- Save fuel  
Higher speeds
- Near-permanent
- Anti-corrosion
- Permanent hydrophobic
- Anti-pollution
- Anti-algae
- UV protection
- Self-cleaning  
Stays cleaner longer
- Impact Resistance  
30" -2 lbs
- Thermal Shock-Resistant

# SI24

1-Component (1K)

## H9 UVA Topcoat Transparent for matte surfaces

<b>Product ID</b>	: SI241LUVA 32 oz / 2.13 lbs SI2405UVA 16 oz / 1.05 lbs
<b>Consumption</b>	: 3 layers +/- 0.075 lbs/ft <sup>2</sup> - 0.12 oz/ft <sup>2</sup> 18 micron = 200 ft <sup>2</sup>
<b>Reachable area</b>	: 2 layers +/- 0.050 lbs/ft <sup>2</sup> - 0.08 oz/ft <sup>2</sup> 12 micron = 400 ft <sup>2</sup>
	: 1 layer +/- 0.025 lbs/ft <sup>2</sup> - 0.04 oz/ft <sup>2</sup> 6 micron = 800 ft <sup>2</sup>
<b>Hardness/Cupping</b>	: H9 / Flexibility ISO 1520 >0.83"
<b>Used for</b>	: Fiberglass, steel, aluminium, plastics, wood, vinyl canopy
<b>Application field</b>	: Marine, exteriors, interiors camouflage.

SI24 is an incredibly strong 1-component high performance coating and 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 550°F
- Superb adhesion even on glass or stainless steel.
- Can be sprayed multilayered.
- Transparent, Opaque, solid-color or vibrant, transparent color finishes.

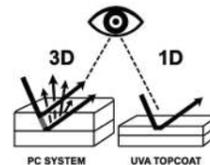
Expected life duration 8-16 or 24 Years (layer thickness)



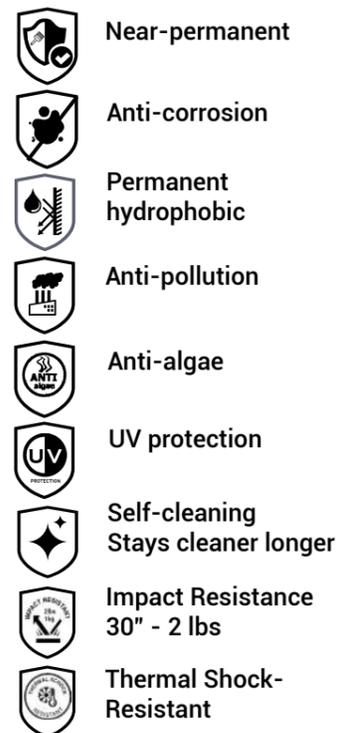
How to use: Page 39



How does it look visually?



## Anti Scratch - UV Resistant



## UVA Topcoat Colorants

### Precision Color Control — From Super-Transparent Tints to Bold, Defined Shades

As a coating manufacturer, we use advanced colorant chip technology to produce fully prepared, ready-to-use colorants that integrate seamlessly into our coating systems.

The colorant chips themselves are selected, processed, and blended by us under controlled conditions, resulting in liquid colorants with precise concentration, high transparency, and excellent stability. Our customers receive a finished colorant product and do not need to handle or process chips in any way.

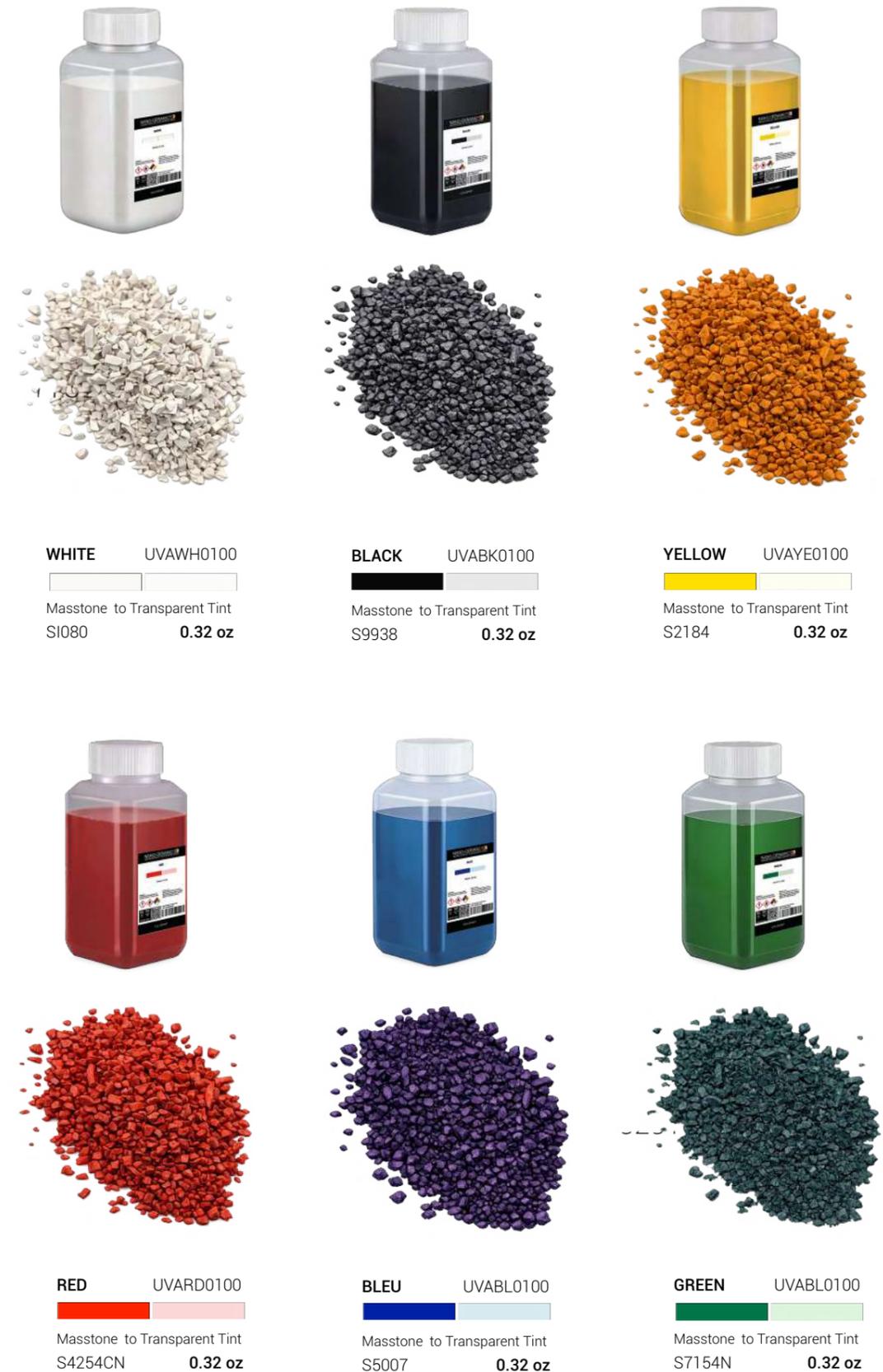
Because the colorants are supplied ready to use, incorporation into our coating systems is simple and straightforward. The required amount of colorant can be added directly to the coating and mixed using standard stirring or mechanical mixing.

The colorant disperses quickly and evenly, without streaking, cloudiness, or the need for special equipment. This makes color adjustment easy and reliable, even for small batches or on-site applications.

By controlling the entire process—from coating and colorant chip selection to finished colorant production—we ensure consistent color accuracy and repeatability from batch to batch.

The colorants are specifically engineered to remain fully compatible with our high-performance binder technologies. As a result, color can be introduced without compromising transparency, gloss, durability, or chemical resistance.

The outcome is a coating system in which professional color control—from super-transparent shades to bold finishes—is achieved with minimal effort for the user: add the colorant, mix, and apply.



APPLY VIDEO  
SCAN  
QR CODE

# SIX1

2-Component (2K)

## Primer Epoxy Polyamide

heavy duty - anti-corrosion

**Product ID** : SIX11250-WH/GR 42 oz / 3.2 lbs SIX15000-WH/GR 1.32 gal / 12.8 lbs  
**Consumption** : 2 layers +/- 0.53 lbs/ft<sup>2</sup> - 0.7 oz/ft<sup>2</sup> 80 micron = 50 ft<sup>2</sup>  
**Reachable area** : 1 layer +/- 0.26 lbs/ft<sup>2</sup> - 0.4oz/ft<sup>2</sup> 40 micron = 100 ft<sup>2</sup>  
**Hardness** : H5  
**Colors** : White, Grey or RAL (RAL Minimum Order 250 pcs 1.32 gal)  
**Used on** : Concrete, Steel, Aluminium, Fiberglass and other organic surfaces

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

SIX1 is a solvent based epoxy polyamide primer. This primer is used for corrosion protection on concrete, stainless, galvanized, carbon and alloy steel, aluminum in corrosive conditions and has excellent adhesion to all organic substrates and to all 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**



## Heavy Duty Primer - Smooth Surfacer

# SIX2

2-Component (2K)

## Primer Surfacer Acrylic Alkyd

smooth - surface modifier

**Product ID** : SIX21250-WH/GR 42 oz / 3.2 lbs SIX25000-WH/GR 1.32 gal / 12.8 lbs  
**Consumption** : 2 layers +/- 0.44 lbs/ft<sup>2</sup> - 0.7 oz/ft<sup>2</sup> 60 micron = 60 ft<sup>2</sup>  
**Reachable area** : 1 layer +/- 0.22 lbs/ft<sup>2</sup> - 0.4 oz/ft<sup>2</sup> 30 micron = 120 ft<sup>2</sup>  
**Hardness** : H3  
**Colors** : White or Grey  
**Used on** : Steel, aluminium, wood, fiberglass, and old paint systems.  
**Application area** : Buildings, marine, airports, bridges

SIX2 High-quality 2K surfacer (two-component basecoat) for auto-refinish, marine, and industrial coating applications where a smooth surface is required. The primer has excellent adhesion to all organic substrates and to all of our ceramic topcoats. The primer can be applied at a relative humidity of 30-80% and can be painted over within 4 hours 85°F, 1 hours 140°F.



**Fast Repaintable**



**Excellent adhesion**



**VOC Free**



# SIX3

2-Component (2K)

## Primer PU Wood Filler

surface modifier - absorption reducer

- Product ID** : SIX31500 51 oz / 3.3 lbs  
**Consumption** : 2 layers +/- 0.40 lbs/ft<sup>2</sup> - 0.6 oz/ft<sup>2</sup> 60 micron = 80 ft<sup>2</sup>  
**Reachable area** : 1 layer +/- 0.20 lbs/ft<sup>2</sup> - 0.3 oz/ft<sup>2</sup> 30 micron = 120 ft<sup>2</sup>  
**Hardness** : H4  
**Used on** : Steel, Aluminium and other organic surfaces  
**Application area** : Buildings, marine, airports, offshore structures, bridges

SIX3 is a solvent borne transparent wood filler. This primer is used as surface modification for, wood or natural stone 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%.



## Wood or Natural Stone - Filler

# SIX4

1-Component (1K)

## Primer Acrylic Waterbased

all surfaces modifier - stain killer

- Product ID** : SIX41000-WH/GR 32 oz / 2.65 lbs SIX44000-WH/GR 1 gal / 10.6 lbs  
**Consumption** : 2 layers +/- 0.53 lbs/ft<sup>2</sup> - 0.7 oz/ft<sup>2</sup> 80 micron = 50 ft<sup>2</sup>  
**Reachable area** : 1 layer +/- 0.26 lbs/ft<sup>2</sup> - 0.4 oz/ft<sup>2</sup> 40 micron = 100 ft<sup>2</sup>  
**Hardness** : H3  
**Colors** : White, Grey or RAL (RAL Minimum Order 250 pcs 1 gal)  
**Used on** : Concrete, wood, drywalls and old waterbased paints  
**Application area** : Buildings, walls and ceilings indoor or outdoor



SIX4 Acrylic Water-Based Primer is a premium, all-purpose primer-sealer with excellent adhesion, stain-blocking, and hiding power. Ideal for both interior and exterior surfaces, it bonds to glossy surfaces without sanding, effectively blocks stains, and provides a smooth foundation for any solvent-based or water-based topcoat



# SIX5 2-Component (2K)

## Putty Polyester ultra smooth - sandable

**Product ID** : SIX51000-WH/GR 2.2 lbs  
**Colors** : White, Grey  
**Used on** : Metal, wood, fiberglass, concrete, plastics  
**Application area** : Buildings, marine, airports, offshore structures, bridges private housing, etc.



SIX5 is a High quality 2 (two) component Epoxy base putty for auto-refinish, marine and industrial coating applications.



# SOLV Thinner solvent

## for all types of our ceramic paint & coating

**Product ID** : SOLV0400 14 oz / 0.8 lbs SOLV2000 64 oz / 3.9 lbs SOLV5000 1.32 gal / 9.7 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

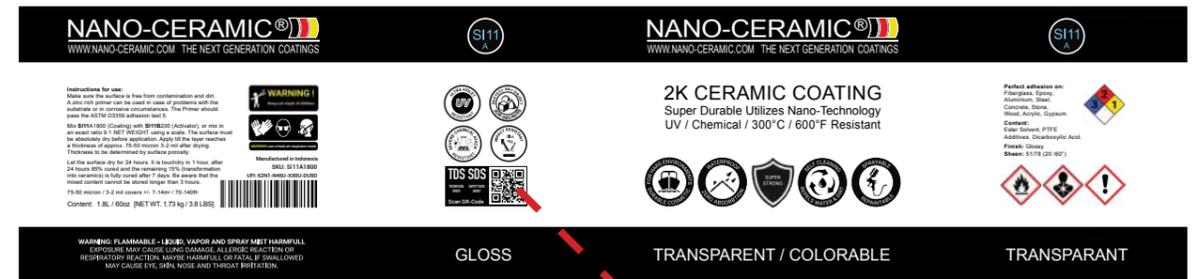
## slow down flash time or speed up curing

**Product ID** : RETA0400 14 oz / 0.85 lbs ACCL0200 7 oz / 0.4 lbs



If your application needs a longer flash time (for example, in hot temperatures) to build up the layer with a second or third coat, you can add the RETA Retarder. If you want to speed up the curing process, you can add the ACCL Accelerator. It can reduce curing time by 30–70% compared to uncatalyzed systems, and full hardness can develop 1.5–2× faster.

## Scan QR Code for TDS and SDS



## (Test) Results



## Videos Application



## 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



### 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, glasfiber, 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 Reactivaing 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 color pigment than average, it may be necessary to use our SOLV thinner solvent to achieve optimal flowability.

## How to use our UVA Coating System:

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

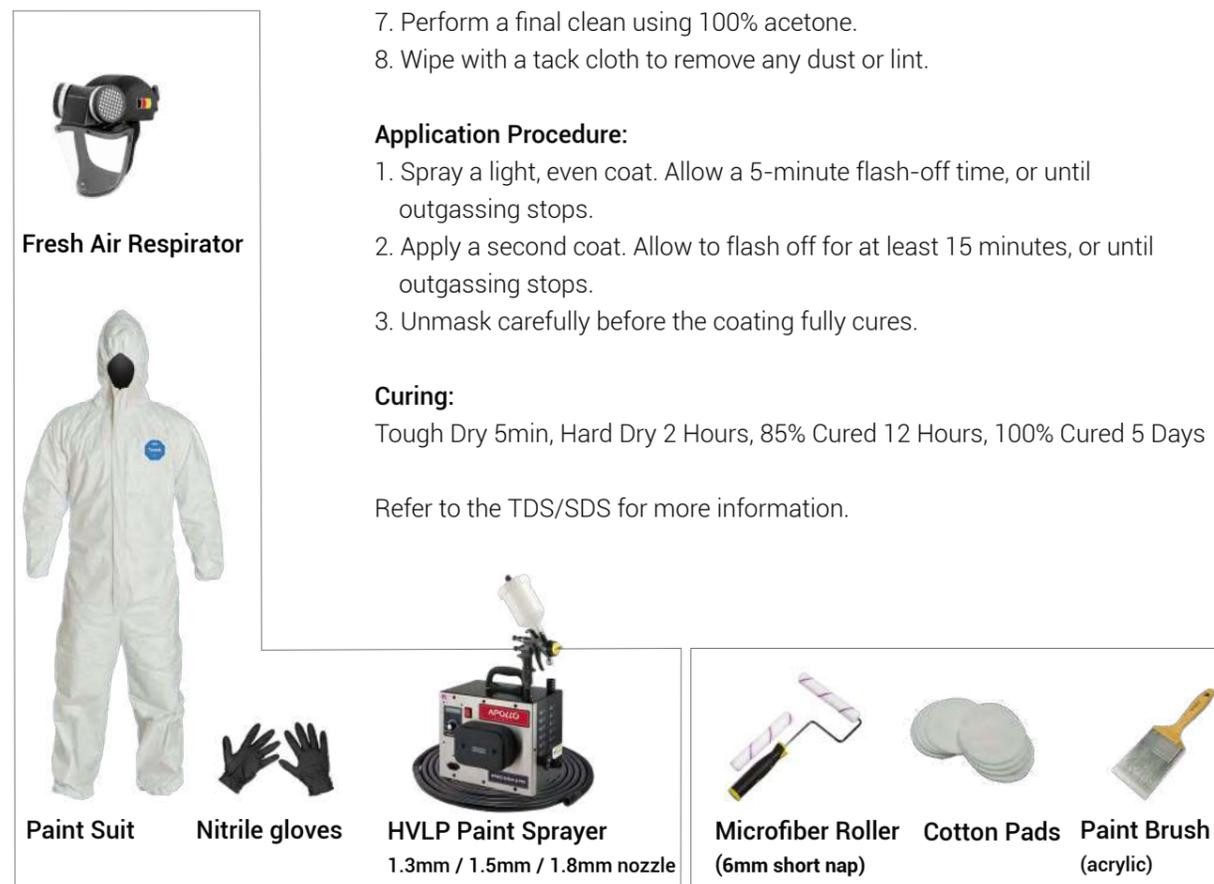
### Processing Temperature:

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:



### Instructions for use:

Protect or Renew; Marble, Granite, Varnished wood, HPL, PVC or Vinyl laminate and Melamine. Creates an easy-to-clean, anti-scratch surface that is resistant to UV Discoloration, HF (Hydrofluoric Acid), Hydrochloric Acid, and Citric Acid.

Wipe Application; 1. Clean the surface 2. Sterilize the surface 3. Apply via the cotton pad an even layer 4. Let it cure.

Spray Application; Use an HVLP (High Volume Low Pressure) spray gun with 60-80% transfer efficiency. Fit the spray gun with a 1.0-1.3 mm fluid tip. Set air pressure to 20-30 psi.

### Preparation Steps:

1. Stir the coating thoroughly for 30 seconds before use.
2. Prior to application, strain the mixed coating through a suitable paint filter (e.g., 190-250 µm) to ensure a clean, defect-free spray.
3. Wash and decontaminate the surface.
4. Wet sand / scuff using 1500-2000 grit sandpaper.
5. Mask off any parts not to be coated.
6. Ensure environmental conditions are below 65% humidity.
7. Perform a final clean using 100% acetone.
8. Wipe with a tack cloth to remove any dust or lint.

### Application Procedure:

1. Spray a light, even coat. Allow a 5-minute flash-off time, or until outgassing stops.
2. Apply a second coat. Allow to flash off for at least 15 minutes, or until outgassing stops.
3. Unmask carefully before the coating fully cures.

### Curing:

Tough Dry 5min, Hard Dry 2 Hours, 85% Cured 12 Hours, 100% Cured 5 Days

Refer to the TDS/SDS for more information.

# NANO-CERAMIC®

WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS

**There is no better option than to use  
NANO-CERAMIC!**

*Did you know that our  
Permanent Coating System  
repels water and dirt and  
lasts 25 Years+ ?*

**Dealer**