

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%.

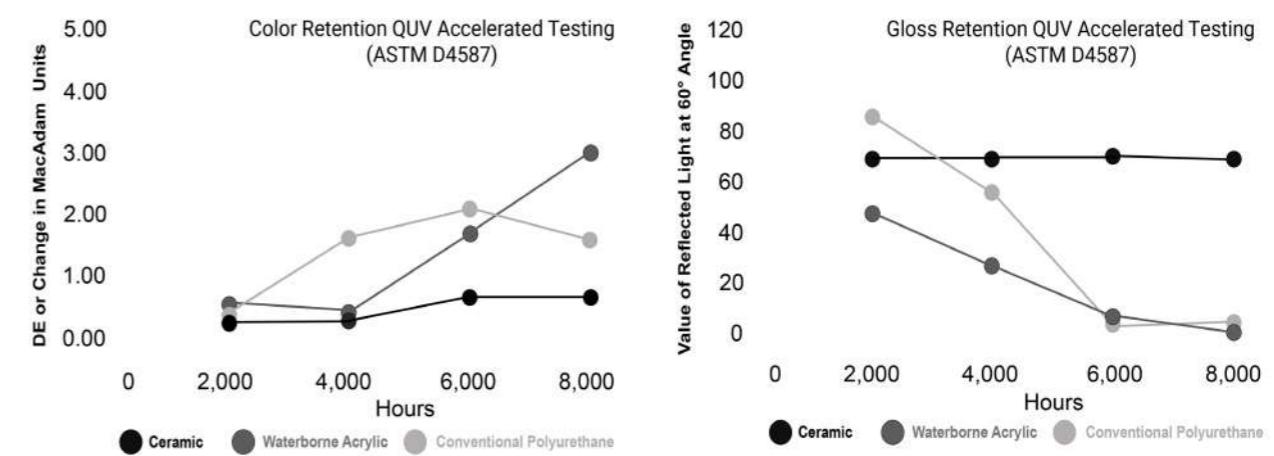
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated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

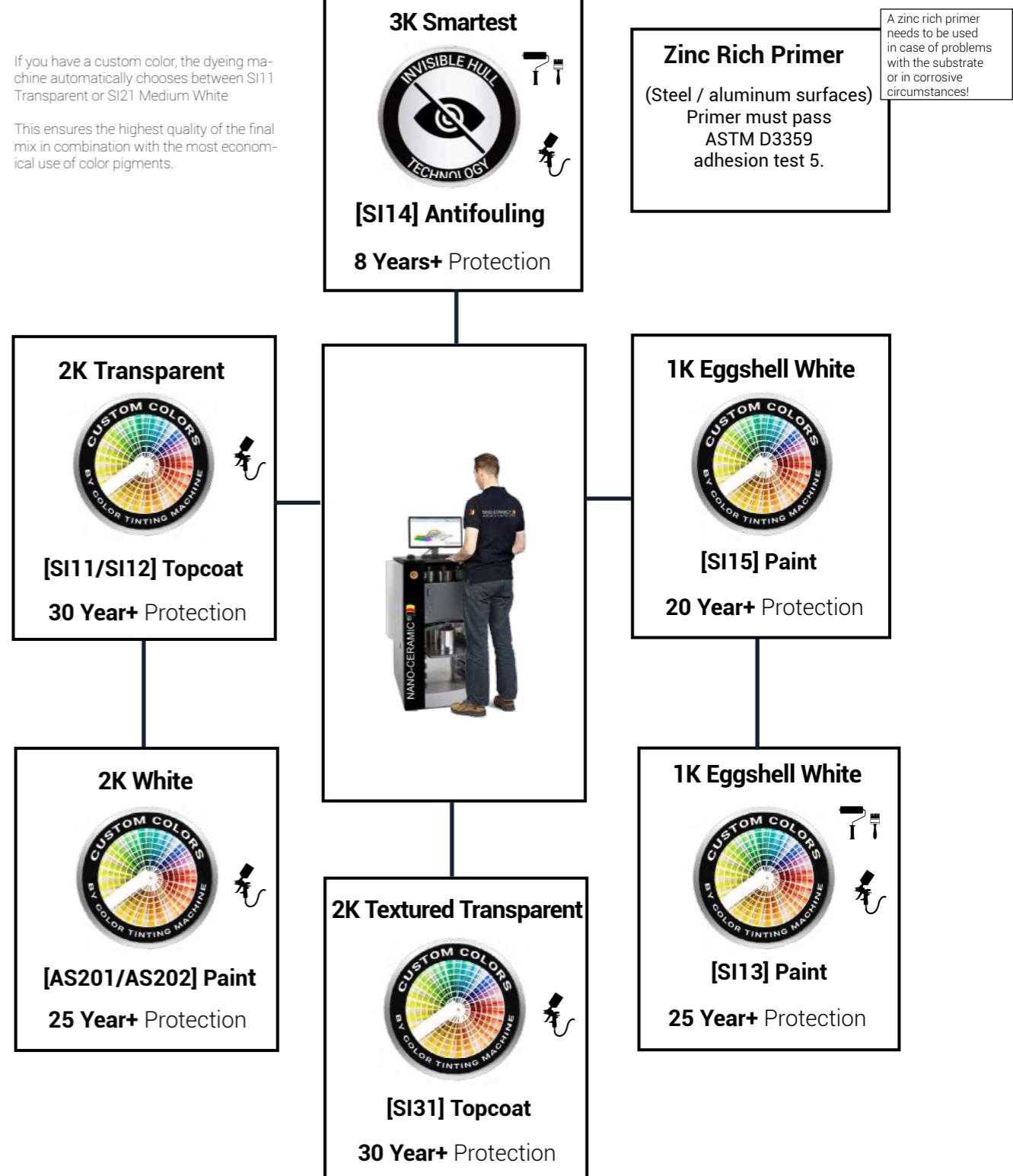
In case written in bold font it means existing shortcomings in quality.

Characteristics	Acrylic Latex walls ceilings	Acrylic walls floors	Epoxy floors	Polyurethane waterproofing	CERAMIC® all surfaces
Primer	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 Strength 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

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

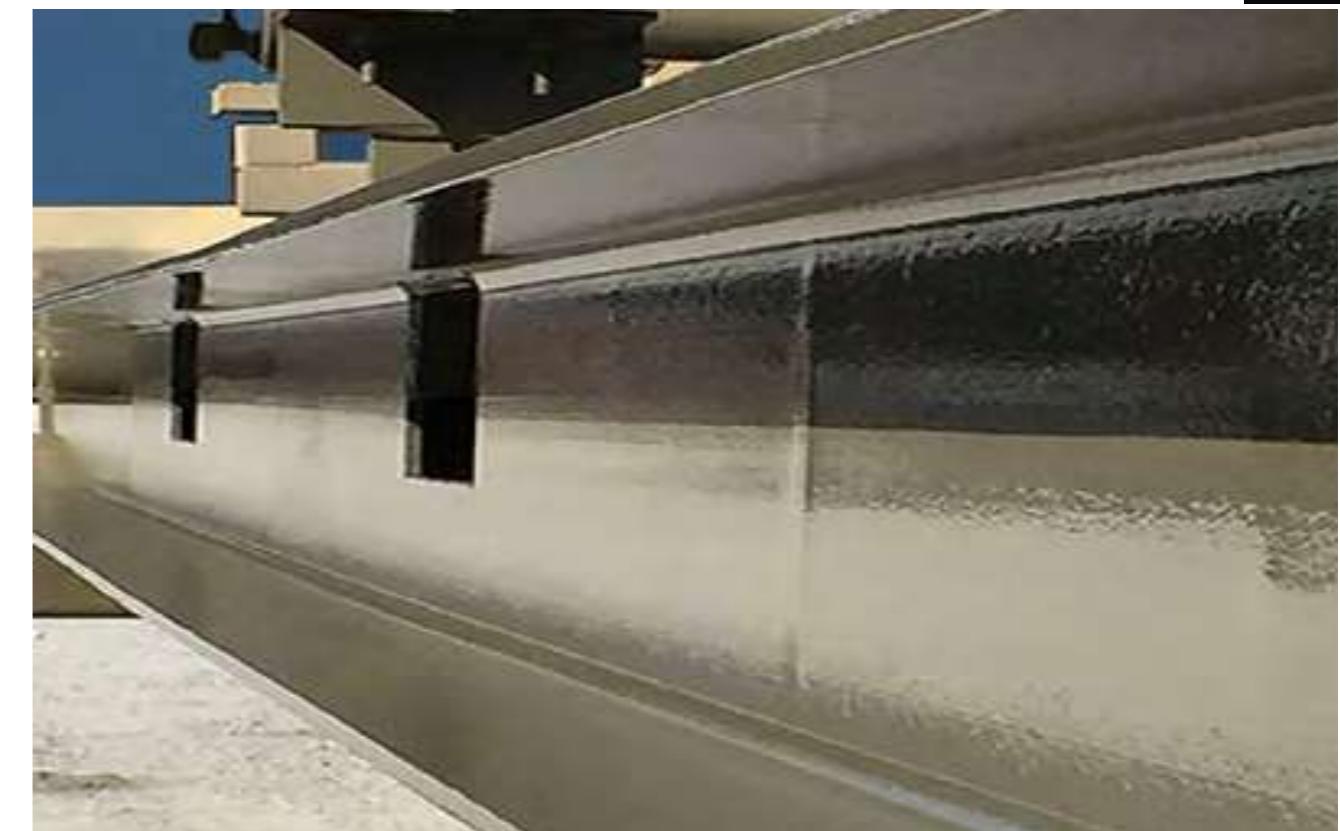
SI11/SI12 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

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

Product ID : SI212000 67 oz / 5.3 lbs

: SI222000 67 oz / 5.5 lbs

Consumption : 3 layers 0.044 lbs/ft² - 0.56 oz/ft² = 3 mil / 120 ft²

Reachable area : 2 layers 0.030 lbs/ft² - 0.37 oz/ft² = 2 mil / 160 ft²

: 1 layer 0.014 lbs/ft² - 0.19 oz/ft² = 1 mil / 240 ft²

Hardness : H8

Used on : Gelcoat, fiberglass, steel, aluminium, plastics, wood, concrete

Application area : Buildings, airports, offshore structures, bridges, tunnels, ships, tanks, vehicles, etc.

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 Epoxy flooring or repaints.
- Repaints of ceramic bathroom tiles.
- Zero absorption, waterproof.



How to use: Page 38



Thermal Shock - Impact Resistant

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



Expected Life Duration up to 25 years+

SI31 2-Component (2K)

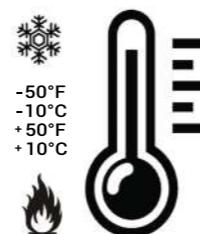
Textured Transparent Semi Gloss

antislip - high impact resistant



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

How to use: Page 38



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.

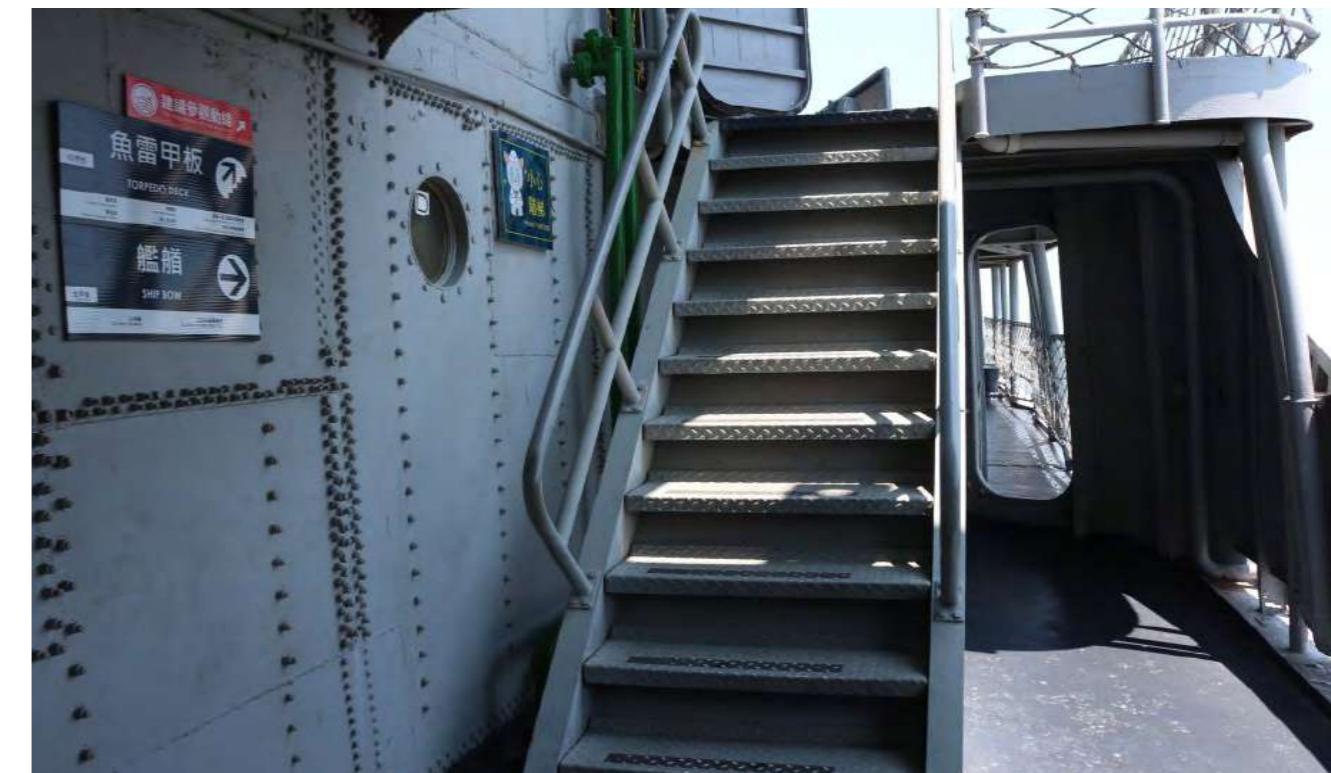
- Easily repels water, dirt, dust, and pollutants.
- This coating has an outstanding hydrophobic effect.
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 600°F.
- Zero absorption, waterproof, insulation and heat rejecting

- 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**

Expected Life Duration up to 30 years+



Anti Slip - Noise Reduction



SI14 3-Component (3K)

Ceramic Smart Antifouling

Transparent black/red/blue/grey

Product ID	: SI141000-BK-RD-BL-GR 32 oz / 2.4 lbs
	: SI144000-BK-RD-BL-GR 1 gal / 9.5 lbs
Consumption	: 2 layers 0.08 lbs/ft ² -1.30 oz/ft ² = 8 mil / 140 ft ²
Reachable area	: 1 layer 0.04 lbs/ft ² -0.65 oz/ft ² = 4 mil / 280 ft ²
Hardness	: H7
Used for	: Concrete Gelcoat, fiberglass, steel, aluminium, plastics, wood, virtually any surface.
Application area	: 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 algea
- Super smooth self-polishing surface
- Organic Copper and Tin Non Biocidal releasel
- 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**
Algea 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



Product ID	: SI132000 67 oz / 7.3 lbs White
Consumption	: 2 layers 0.050 lbs/ft ² - 0.48 oz/ft ² = 3.5 mil / 140 ft ²
Reachable area	: 1 layer 0.025 lbs/ft ² - 0.24 oz/ft ² = 1.8 mil / 280 ft ²
Hardness	: H7
Used for	: 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
Application area	: 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.

	Near-permanent
	Anti-corrosion
	Permanent hydrophobic
	Anti-pollution
	Anti-algae
	UV protection
	Self-cleaning Stays cleaner longer
	Thermal Shock-Resistant

Expected Life Duration up to 25 year+



Easy to clean - Egg-shell



S|15

1-Component (1K)

Ceramic Paint White

for egg-shell surfaces



Product ID	: S152000 67 oz / 6.6 lbs White
Consumption	: 2 layers 0.048 lbs/ft ² - 0.48 oz/ ft ² = 3.5 mil/140 ft ²
Reachable area	: 1 layer 0.024 lbs/ft ² - 0.24 oz/ ft ² = 1.8 mil/280 ft ²
Viscosity	: 20
Hardness	: H6
Used for	: 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
Application area	: Buildings, airports, tunnels, hotels, private housing etc.

How to use: Page 38

S|15 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.
-



Near-permanent



Anti-corrosion



Permanent hydrophobic



Anti-pollution



Anti-algae



UV protection



Self-cleaning
Stays cleaner longer



Thermal Shock-Resistant

Expected Life Duration up to 20 year+



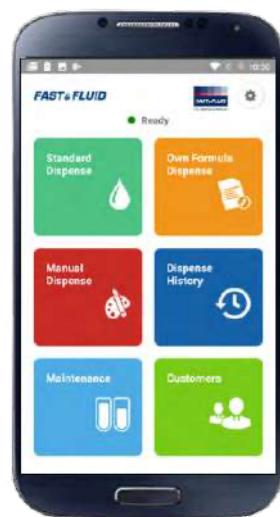
Easy to clean - Egg-shell



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.



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

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	RAL 9018	RAL 3015
Cool white	Papyrus white	Light pink
RAL 9001	RAL 9022	RAL 5007
Cream white	Pearl light grey	Pastel blue
RAL 9002	RAL 9023	RAL 4009
Grey white	Pearl dark grey	Pastel violet
RAL 9003	RAL 1000	RAL 6027
Signal white	Green beige	Light green
RAL 9004	RAL 1001	RAL 7000
Signal black	Beige	Squirrel grey
RAL 9005	RAL 1002	RAL 1036
Jet black	Sand yellow	Pearl gold
RAL 9006	RAL 1011	RAL 8029
White aluminium	Brownbeige	Pearl copper
RAL 9007	RAL 1013	RAL 4012
Grey aluminium	Pearl white	Pearl blackberry
RAL 9010	RAL 1014	RAL 5025
Pure white	Ivory	Pearl gentian blue
RAL 9011	RAL 1015	RAL 6036
Graphite black	Light ivory	Pearl opal green
RAL 9016	RAL 9017	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



Luminous yellow



Traffic red



Jet black



Golden yellow [Cat]



Leaf green [J.D Deere]



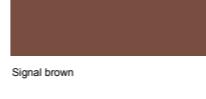
Light grey



Dark grey



Silver grey



Signal brown



Pale brown

Other colors need minimal 220 lbs

Marine

SI12 Transparent Matte 11/21 (20/60°)
SI1 Textured White Semi Gloss 41/69 (20/60°)
SI33 Textured Black Semi Gloss 41/69 (20/60°)
SI42 Textured White Matte 11/21 (20/60°)

Original



Cool white



Pure white



Burgundy



Cream white



Platinum



Distant blue



Traffic yellow



Turquoise bleu



Silver gray



Light green



Light grey



Pure white



Cream



Beige



Olive yellow



Signal blue



Military

SI13 Textured Transparent Semi Gloss 41/69 (20/60°)
SI33 Textured Black Semi Gloss 41/69 (20/60°)

Original



Fire red



Transparent matte



Light stone



Blue grey



Bronze green



Jet black



Brick green



Dark sea grey



Dark grey



[RAF] Blue grey



Signal Grey



Antifouling

SI14 Color 31/41 (20/60°)



Transparent



Jet Black



Signal Red



Ultra marine blue



Signal Grey



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:

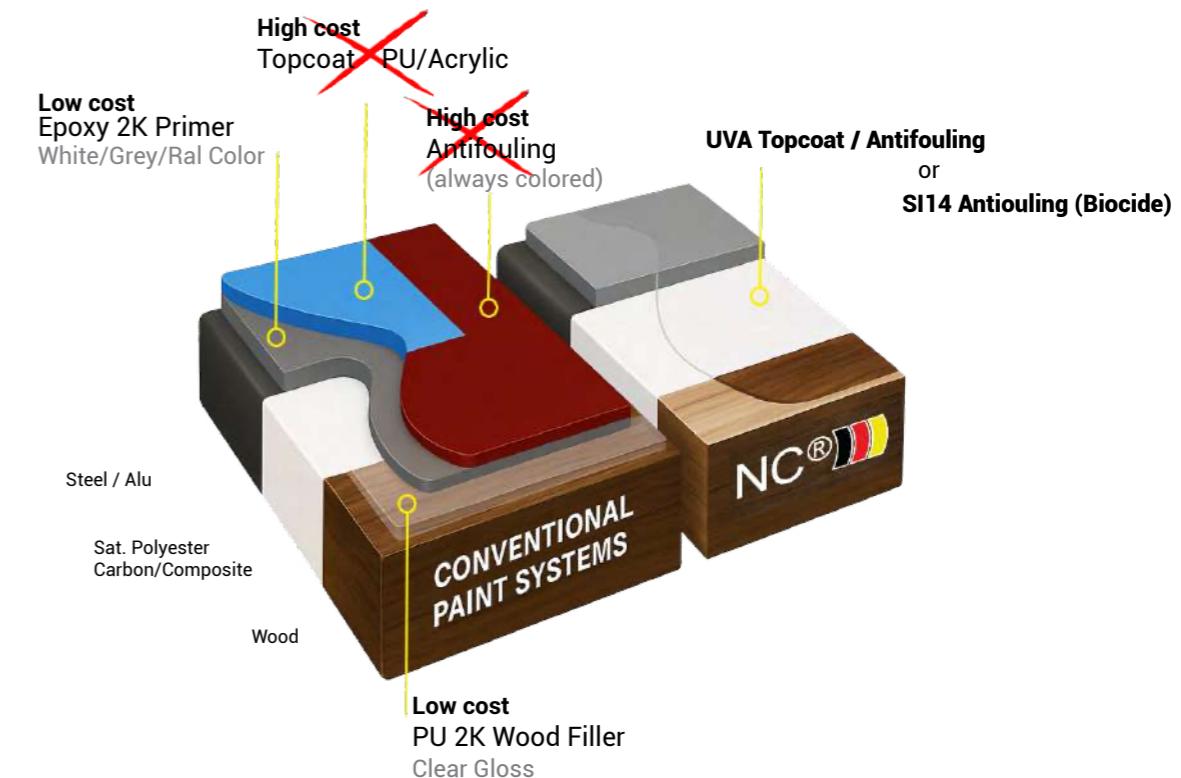
- Yachts & Boats – Hulls, decks, topsides, and superstructures
- Speedboats – UV protection and ultra-slick finish for high-performance watercraft
- Marine Infrastructure – Docks, piers, pontoons, and submerged structures
- Ship Interiors – Tables, countertops, cabins, walls, and decorative panels
- 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 $\pm 0.025 \text{ lbs/ft}^2$ per layer (by wipe or spray), resulting in a film thickness of around 6 microns, with one liter covering up to 800 ft^2 .

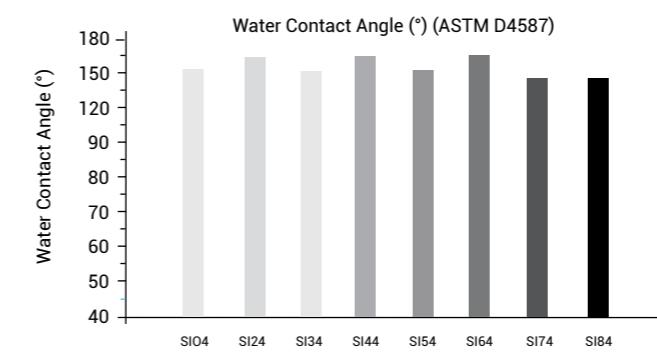
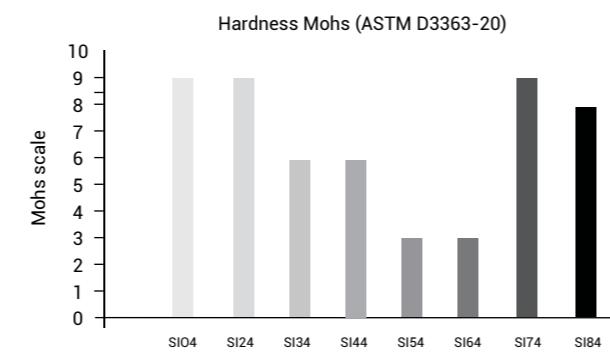
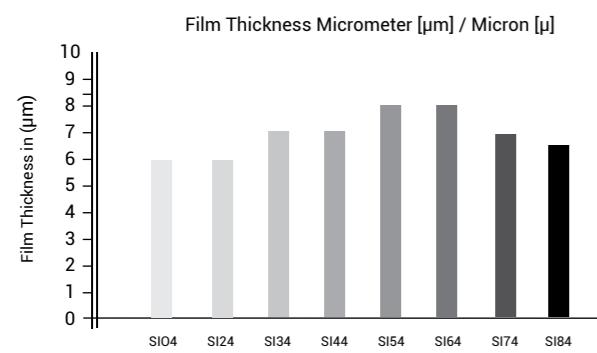
Color Tinting Option for Marine Applications

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	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	550°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 70°C	Poor	Poor	Good	Average	Excellent
Adhesion Strength 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	8/16/24



S104

1-Component (1K)

H9 UVA Topcoat Transparent

for glossy surfaces

Product ID	: S1041LUVA 32 oz / 2.03 lbs S10405UVA 16 oz / 1 lbs
Consumption	: 3 layers +/- 0.075 lbs/ft ² - 0.12 oz/ft ² 18 micron = 200 ft ²
Reachable area	: 2 layers +/- 0.050 lbs/ft ² - 0.08 oz/ft ² 12 micron = 400 ft ²
	: 1 layer +/- 0.025 lbs/ft ² - 0.04 oz/ft ² 6 micron = 800 ft ²
Hardness/Cupping	: H9 / Flexibility ISO 1520 >0.83"
Used for	: Fiberglass, steel, aluminium, plastics, wood
Application field	: Marine, exteriors, antifouling, interiors

S104 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.

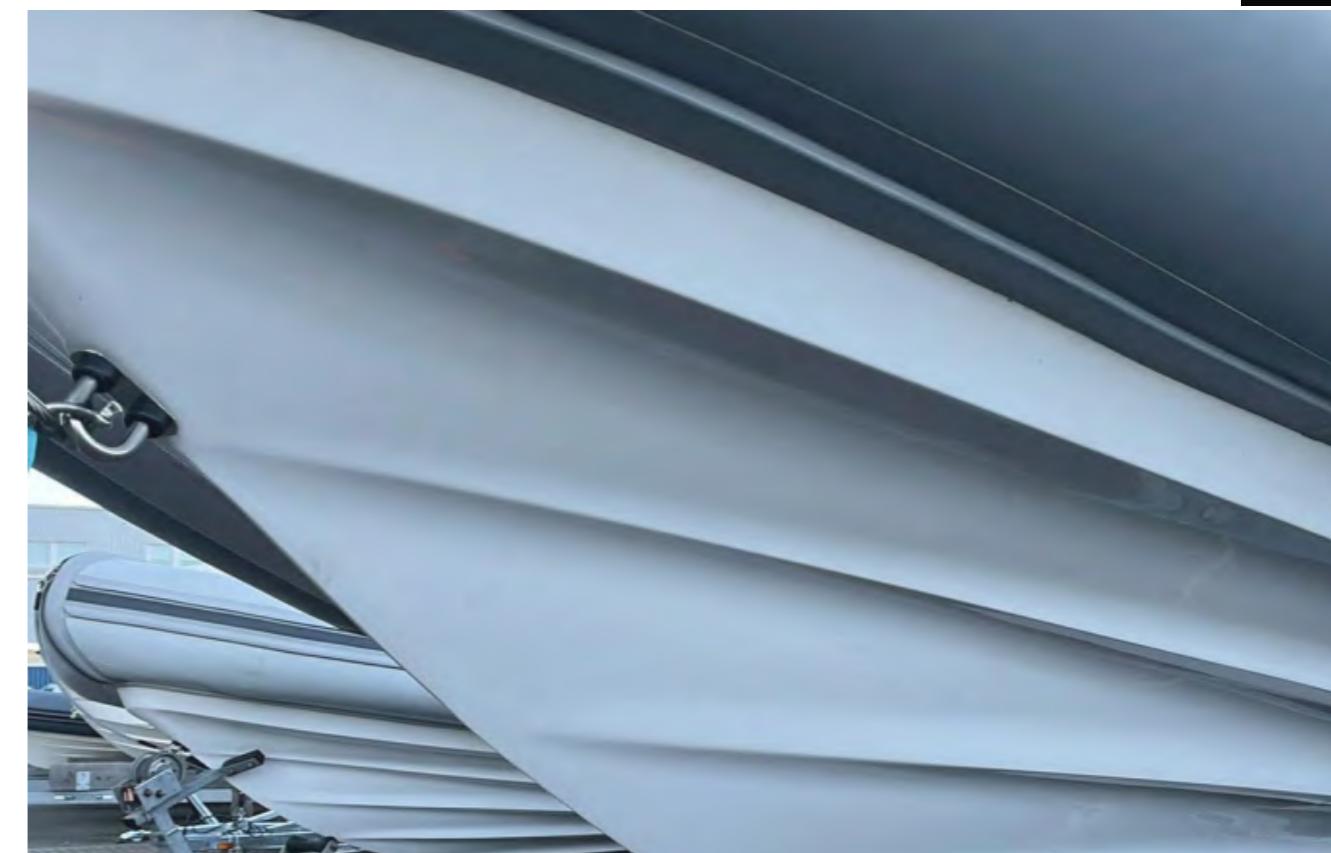
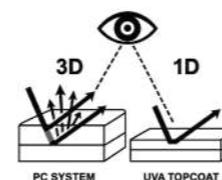
Expected life duration 8-16 or 24 Years (layer thickness)



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

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

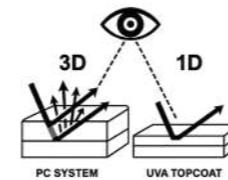
Expected life duration 8-16 or 24 Years (layer thickness)



How to use: Page 39



How does it look visually?



- 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



Anti Scratch - UV Resistant



Marine-Grade Color Protection – Super Transparent

For boats where weight, speed, and durability matter, our advanced hybrid coating system offers a breakthrough: vibrant transparent tints or metallic finishes without sacrificing performance. By blending NANO-CERAMIC® Super Transparent Colorants into our UVA Topcoat, you get:

Ultra-thin coating (<15 microns) = minimal weight

H9 surface hardness = max scratch resistance

Hydrophobic & anti-fouling = fast cleaning, less drag

UV & salt resistant = marine-grade longevity

Clear or colored: keep visibility through glass or plexi

Optional metallic effect for custom marine finishes

Perfect for:

Plexiglass hatches & windscreens

Cabin glass, partitions, skylights

Carbon fiber panels & consoles

Stainless/aluminum trims & detailing



YELLOW A-N4G 100-ST
Masstone
Tint
279376 3.2 oz



RED A-P2Y 100-ST
Masstone
Tint
289404 3.2 oz



PINK A-EB 100-ST
Masstone
Tint
287516 3.2 oz



BLUE A-BTR 100-ST
Masstone
Tint
290247 3.2 oz



BLUE A-BG 100
Masstone
Tint
74160 3.2 oz



GREEN A-GNX 130
Masstone
Tint
74260 3.2 oz



BLACK A-N 100
Masstone
Tint
77266 3.2 oz



OXIDE YELLOW A-BV 100
Masstone
Tint
771740 3.2 oz



BLUE A-BTG 100-ST
Masstone
Tint
275536 3.2 oz



GREEN A-GBX 100-ST
Masstone
Tint
323291 3.2 oz



BLACK A-NB 100-ST
Masstone
Tint
289518 3.2 oz



BLACK A-NY 100-ST
Masstone
Tint
272060 3.2 oz



OXIDE YELLOW A-CR 100
Masstone
Tint
77310 3.2 oz



OXIDE YELLOW A-R 100
Masstone
Tint
77492 3.2 oz



OXIDE RED A-B 100
Masstone
Tint
77491 3.2 oz



WHITE A-R 100
Masstone
Tint
77891 3.2 oz

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/ft² - 0.7 oz/ft² 80 micron = 50 ft²

Reachable area : 1 layer +/- 0.26 lbs/ft² - 0.40 oz/ft² 40 micron = 100 ft²

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



Fast
Repaintable



Excellent
adhesion

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.



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/ft² - 0.7 oz/ft² 60 micron = 60 ft²

Reachable area : 1 layer +/- 0.22 lbs/ft² - 0.4 oz/ft² 30 micron = 120 ft²

Hardness : H3

Colors : White or Grey

Used on : Steel, aluminium, wood, fiberglass, and old paint systems.

Application area : Buildings, marine, airports, bridges



Fast
Repaintable



Excellent
adhesion



VOC Free

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.



Heavy Duty Primer - Smooth Surfacer

SIX3

2-Component (2K)

Primer PU Wood Filler

surface modifier - absorbtion reducer

Product ID : SIX31500 51 oz / 3.3 lbs

Consumption : 2 layers +/- 0.40 lbs/ft² - 0.6 oz/ft² 60 micron = 80 ft²

Reachable area : 1 layer +/- 0.20 lbs/ft² - 0.3 oz/ft² 30 micron = 120 ft²

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%.



Fast
Repaintable



Excellent
adhesion



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/ft² - 0.7 oz/ft² 80 micron = 50 ft²

Reachable area : 1 layer +/- 0.26 lbs/ft² - 0.4 oz/ft² 40 micron = 100 ft²

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



Fast
Repaintable

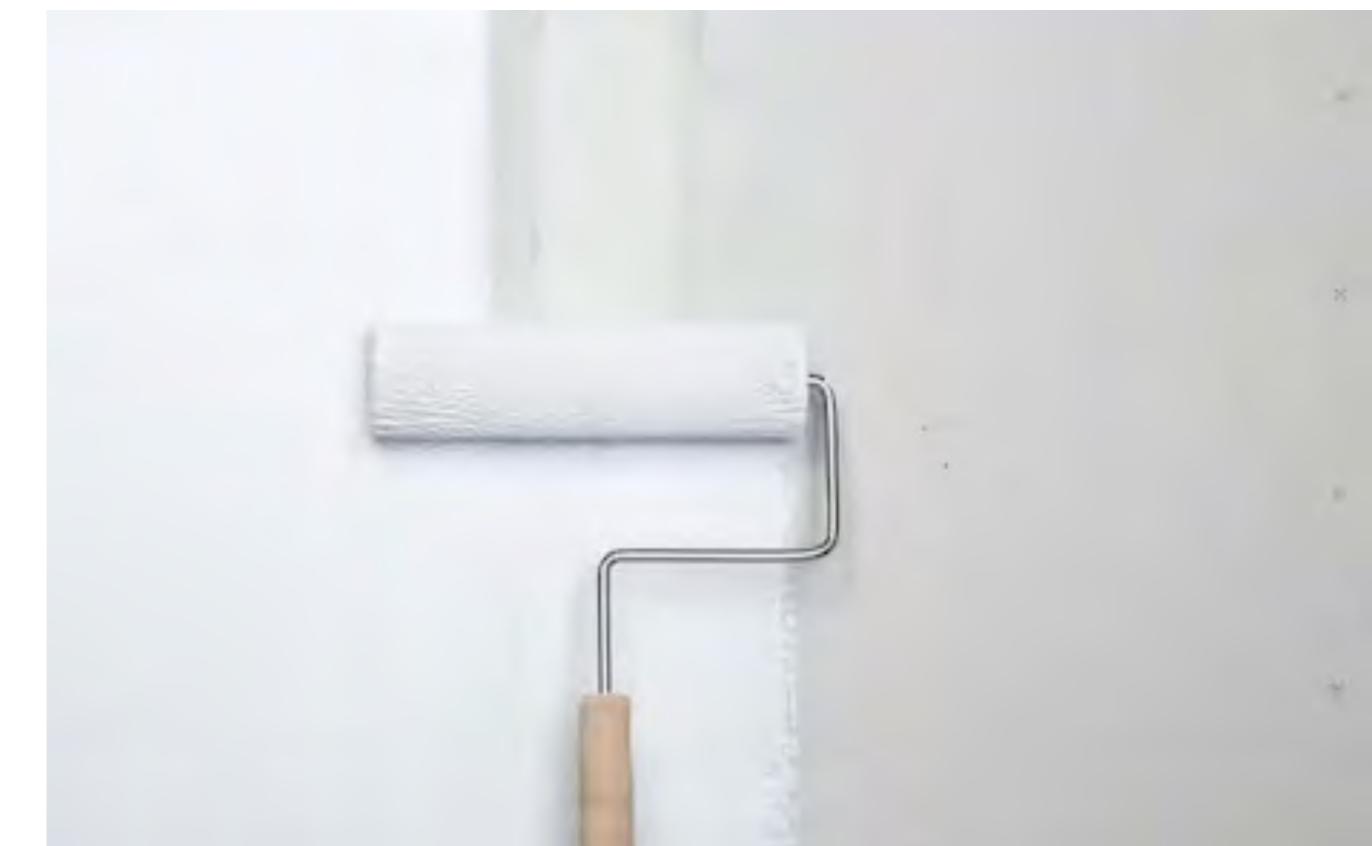


Excellent
adhesion



VOC Free

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

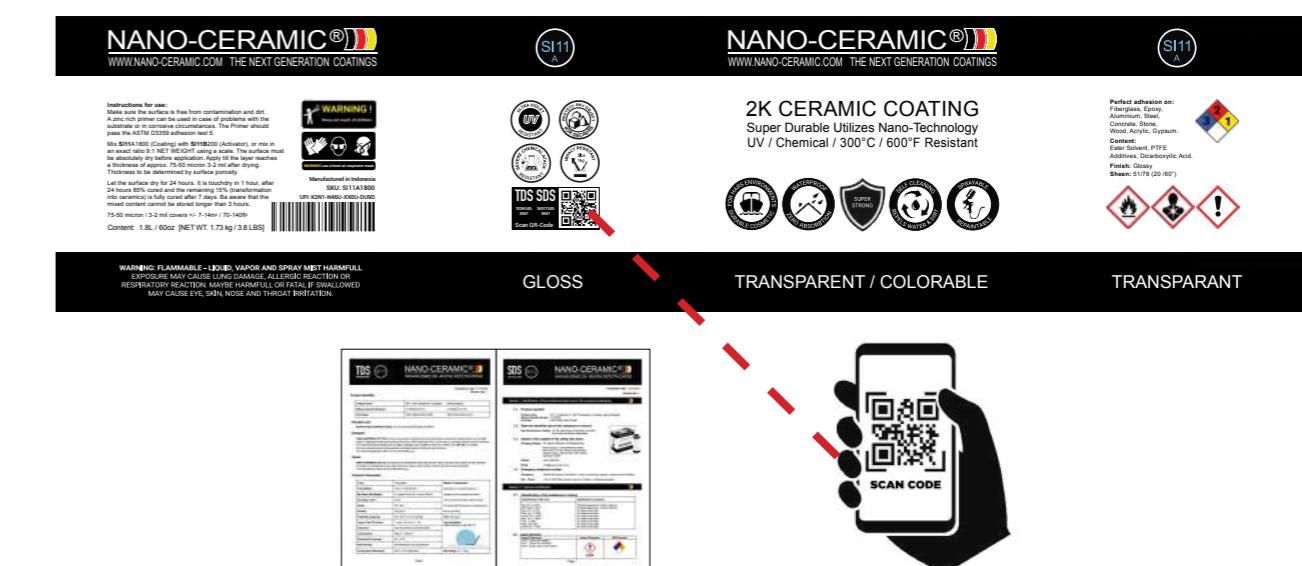
slow down flash time or speed up curing

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 1.5–2x 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



Fresh Air Respirator



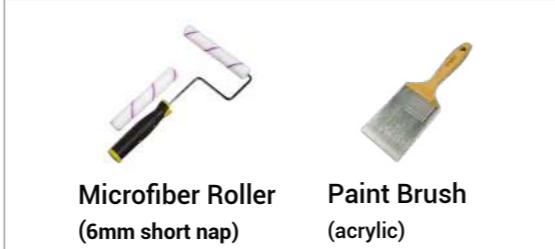
Paint Suit



Nitrile gloves



HVLP Paint Sprayer
1.3mm / 1.5mm / 1.8mm nozzle



Microfiber Roller
(6mm short nap)

Paint Brush
(acrylic)

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 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



Fresh Air Respirator



Paint Suit



Nitrile gloves

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.



HVLP Paint Sprayer
1.3mm / 1.5mm / 1.8mm nozzle



Microfiber Roller
(6mm short nap)

Cotton Pads
(6mm short nap)

Paint Brush
(acrylic)

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