

NANO-CERAMIC®



WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS



Military

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.

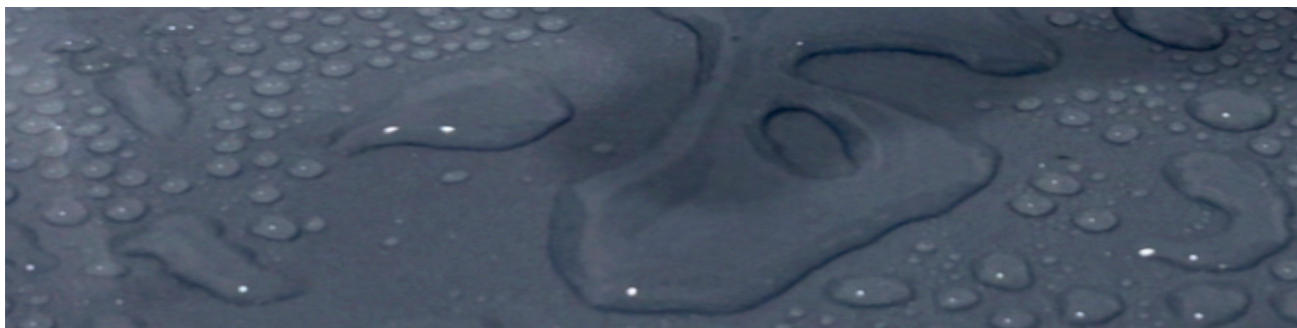
NANO-CERAMIC permanent coating system is 600°F resistant and more than 4 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

Zero Maintenance for decades to come!

Our NANO-CERAMIC permanent coating system is rigorously tested by an independent testing laboratory according to the European standard for outdoor paints (EN 1504-2) as per test report page 19 as here below.

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%.

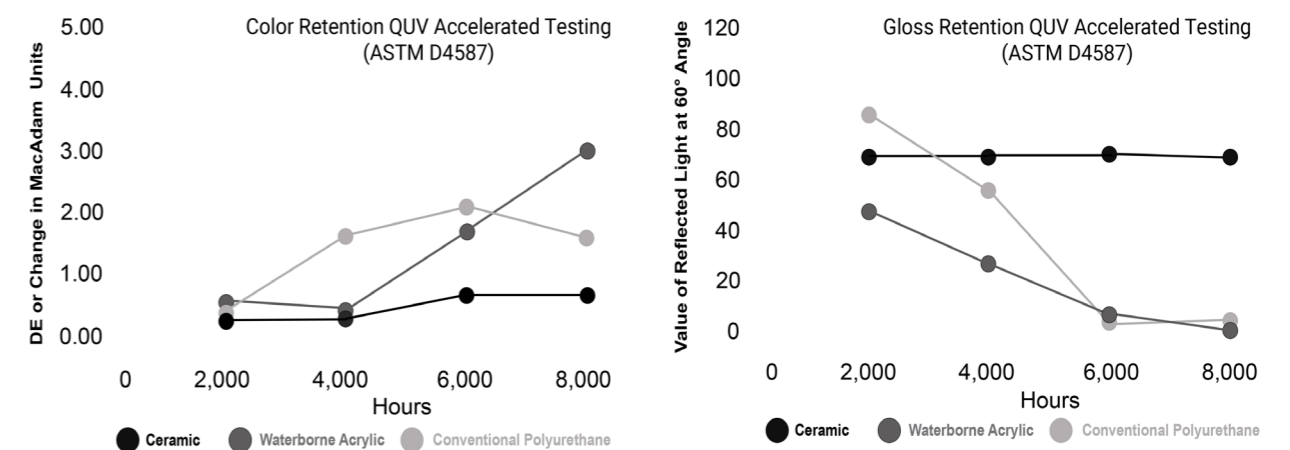
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated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

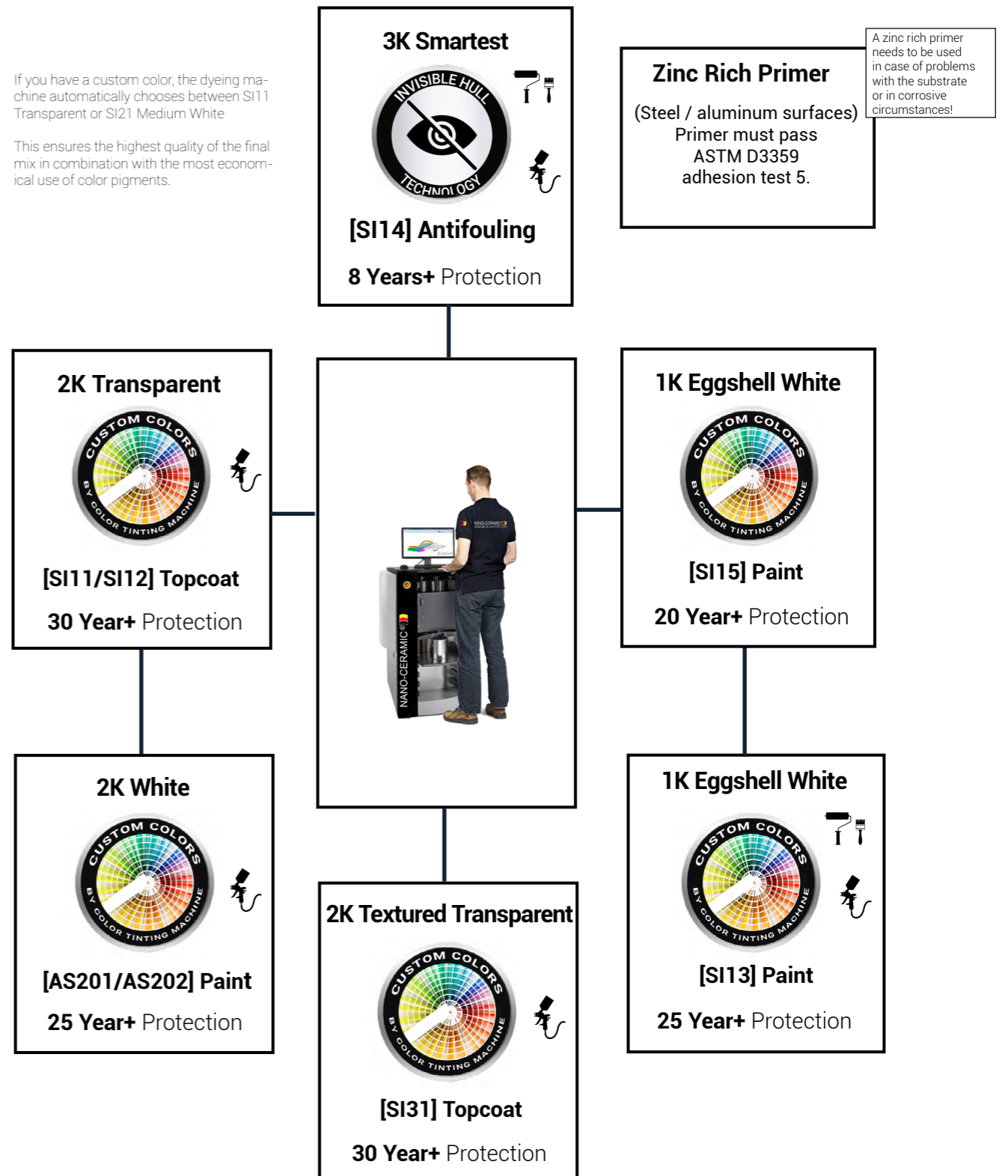
In case written in bold font it means existing shortcomings in quality.

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 Strenght Pull-off	Poor	Average	Good	Poor	Excellent
Impact Resistance	Poor	Average	Good	Poor	Excellent
Anti-Graffiti	No	No	No	No	Yes
Anti-Termite (Wood)	No	No	No	No	Yes
Hydrophobic Self Cleaning	No	No	No	No	Yes
Easy to Clean	No	No	No	No	Yes
Total Solar Reflectance (TSR)	60 (white)	60 (white)	60 (white)	60 (white)	88 (white)
Expected Lifetime in Years	<7	<7	<5-15	<5-15	15-30+

Ceramic Coating & Paint System

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

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



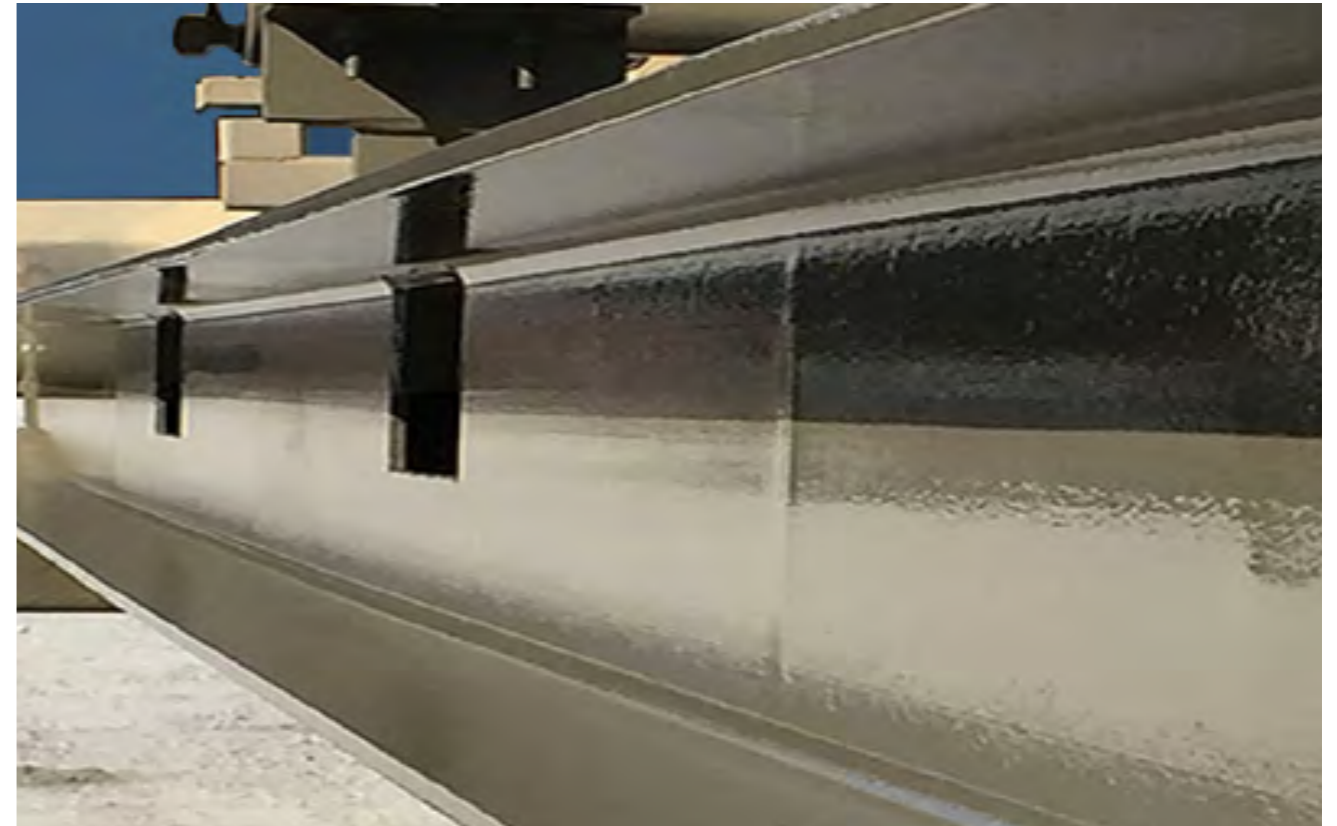
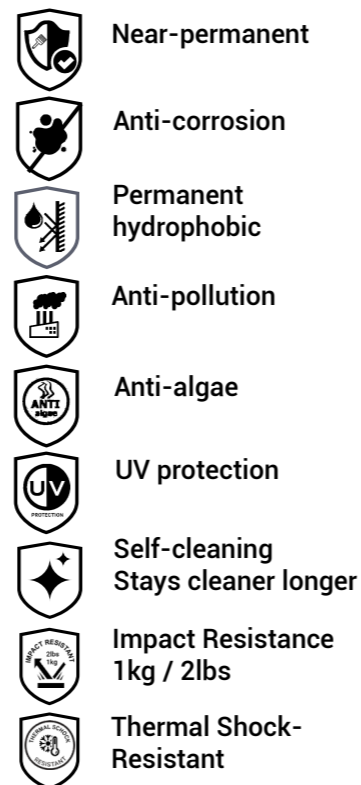
How to use: Page 20

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+



Permanent Hydrophobic - Self Cleaning



SI21/SI22 2-Component

Ceramic Paint White for glossy and satin surfaces

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



How to use: Page 20

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+

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



Thermal Shock - Impact Resistant



SI31 2-Component (2K)

Textured Transparent Semi Gloss antislip - high impact resistant

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

SI31 is a clear solvent-based ceramic coating, linked with a ceramic activator, available in semi-gloss and includes sprayable nano particles.

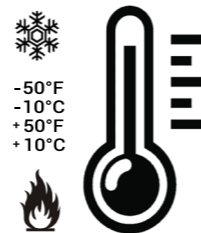
Known for its exceptional durability, this coating easily applies to any organic surface without needing a primer. Its textured design makes it perfect for anti-slip needs.

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

Expected Life Duration up to 30 years+



How to use: Page 20



- 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
2lbs/2.6ft
- Saves 10-20% on electricity



Anti Slip - Noise Reduction



SI14 3-Component (3K)

Ceramic Smart Antifouling black/red/blue/grey/Transparent

Product ID	: SI144000 Black SI144000 Red 1gal/ 9.5 lbs : SI144000 Blue SI144000 Grey 1gal/ 9.5 lbs
Consumption	: 2 layers 0.08lbs/ft ² -1.30oz/ft ² = 8 mil/140ft ²
Reachable area	: 1 layers 0.04lbs/ft ² -0.65oz/ft ² = 4 mil/280ft ²
Hardness	: H7
Used for	: Concrete Gelcoat, fiberglass, steel, aluminium, plastics, wood, virtually any surface.
Application area	: Offshore structures, bridges, ships, tanks, land walls



How to use: Page 20

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
2lbs from 32" high
-  Thermal Shock-
Resistant



Super Smooth - Saves Fuel



S113 2-Component (2K)

Ceramic Paint for egg-shell surfaces



Article Nr. : S1132000 67oz / 7.3 lbs White

How to use: Page 20

Consumption : 2 layers 0.050lbs/ft² - 0.48oz/ ft² = 3.5 mil/140ft²

Reachable area : 1 layers 0.025lbs/ft² - 0.24oz/ ft² = 1.8 mil/280ft²

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 outdoors

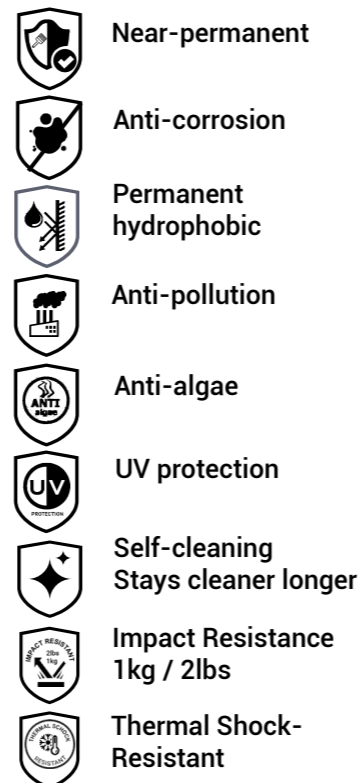
Application area : Buildings, airports, tunnels, hotels, private housing etc.

S113 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.
- This coating can withstand temperatures of 600°F suitable for making walls fire retardant and to make rooftops waterproof

Expected Life Duration up to 25 year+



Near-permanent

Anti-corrosion

Permanent hydrophobic

Anti-pollution

Anti-algae

UV protection

Self-cleaning
Stays cleaner longer

Impact Resistance
1kg / 2lbs

Thermal Shock-Resistant



Passive Cooling - Isolating



SI15

1-Component (1K)

Ceramic Paint White for egg-shell surfaces



Article Nr. : SI152000 67oz / 6.6 lbs White

How to use: Page 20

Consumption : 2 layers 0.048lbs/ft² - 0.48oz/ ft² = 3.5 mil/140ft²

Reachable area : 1 layers 0.024lbs/ft² - 0.24oz/ ft² = 1.8 mil/280ft²

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 outdoors

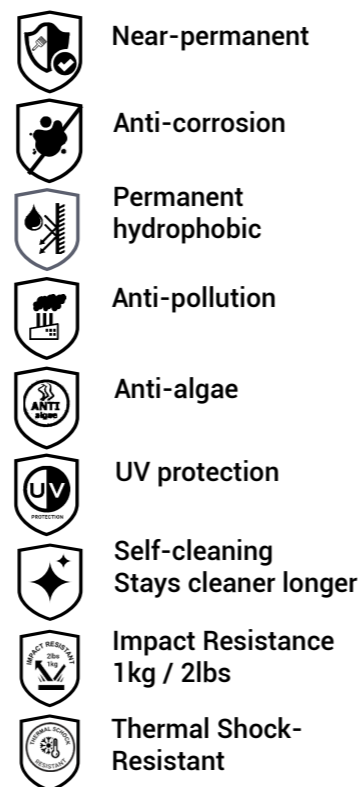
Application area : Buildings, airports, tunnels, hotels, private housing etc.

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.
- This coating can withstand temperatures of 600°F suitable for making walls fire retardant and to make rooftops waterproof

Expected Life Duration up to 20 year+



Chemical - Temperature Resistant (300°C)



SIX1

2-Component (2K)

Primer Micro Zinc Grey

surface modifier

Article Nr. : SIX11000 32oz / 4 lbs

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

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

Hardness : H7

Used on : Steel, Aluminium and other organic surfaces

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

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



Fast Repaintable



Excellent adhesion



Micro Zinc & Wood Grain Filler

SIX2

1-Component (1K)

Primer Wood Grain Filler

surface modifier - absorption reducer

Article Nr. : SIX21000 32oz / 3.5 lbs

Consumption : 2 layers 0.04lbs/ft² - 0.64oz/ ft² = 2 mil/140ft²

Reachable area : 1 layer 0.02lbs/ft² - 0.32oz/ ft² = 1 mil/210ft²

Hardness : H4

Used on : Wood

Application area : Buildings, marine, airports, bridges

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



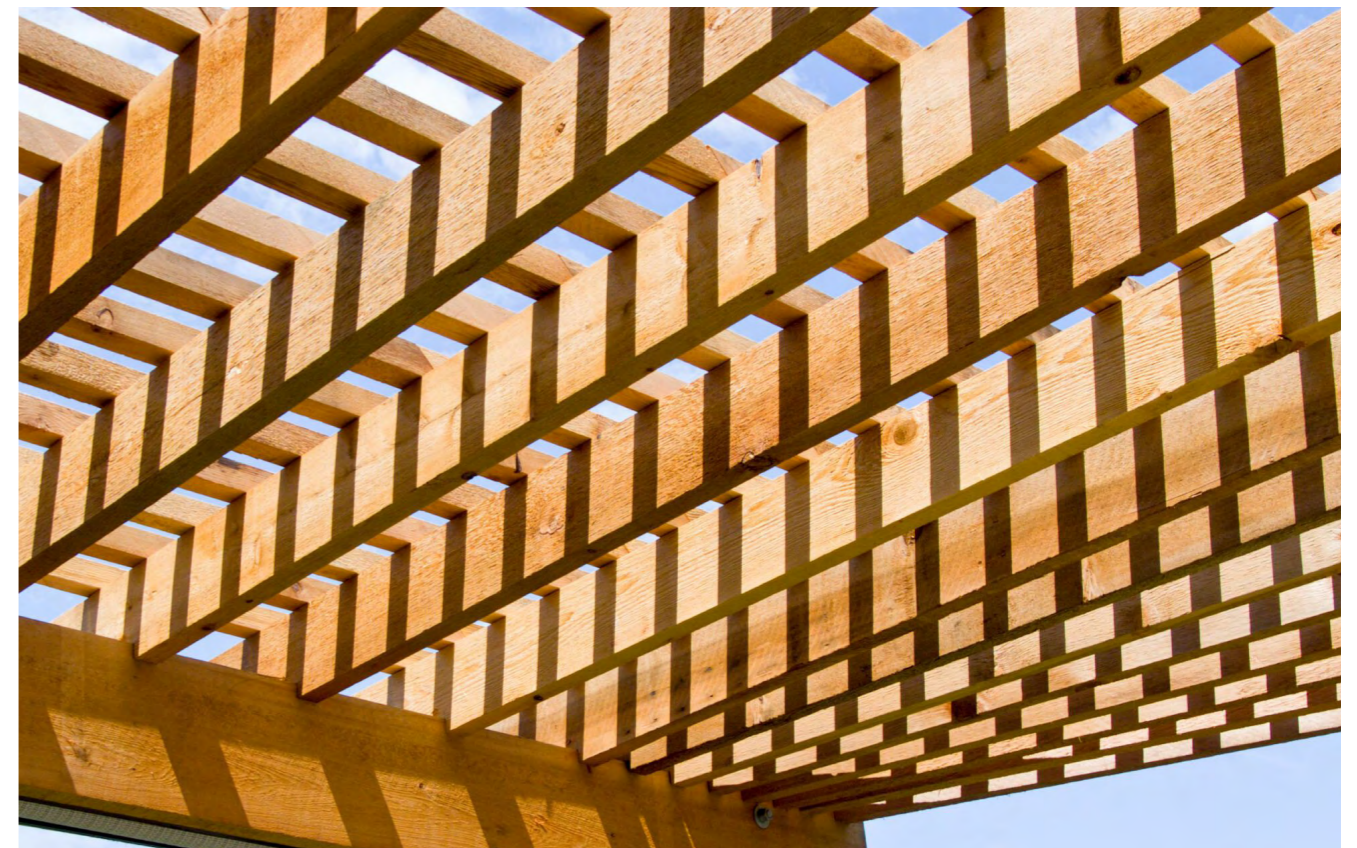
Fast Repaintable



Excellent adhesion



VOC Free



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/SI13/SI14/SI15/SI21/SI22/SI41/SI42 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

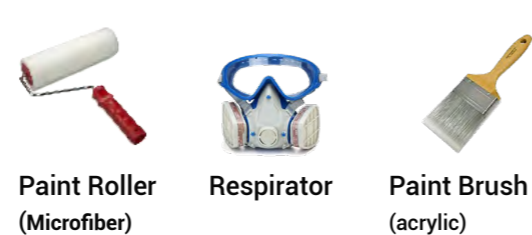
Mix the can SI11B-SI12B-SI13B-SI21B-SI22B-SI31B with the can of SI11A-SI12A-SI13A-SI21A-SI22A-SI31A by pouring can B into can A, or measure **exactly by NET WEIGHT** in a ratio of 9:1 and mix very well. Mix SI14A2800 with SI14C0800 with by pouring can C into can A, or measure **exactly by NET WEIGHT** 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 a required 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. The surface can simply be maintained with a high pressure washer at 80 bar using our biologically degradable Reactivating Shampoo SHRE.

Tool cleaning

The individual components, as well as the mixing system of the paint sprayer, can be diluted and cleaned using our THIN Thinner Solvent.



SOLV

 Thinner solvent

for all types of our ceramic paint & coating



Article Nr. : SOLV0400 14oz / 0.8 lbs

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

RETA/ACCL

 Retarder Accelerator

slow down flash time or speed up curing



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

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

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

E-Warranty

Guarantee of quality and reliability of NANO-CERAMIC is guaranteed for 10 years if applied to the maximum thickness as indicated on the product page of the Consumption area/Availability area. This limited product warranty covers the purchaser for installation in a new building application when installed professionally or supervised by an approved installer. The warranty applies only to newly constructed concrete wall applications, and only against discoloration, peeling, cracking or delaminating. No warranty caused by surface/concrete cracks. All claims caused by cleaning chemicals, other than our SHRE Pure Shine Shampoo will be rejected. The warranty is valid only if registered by one of our approved installers through our Dealership Electronic Warranty registration form.

Sample Kits, Test, Touch and Feel

Sales Demo Kit
 Coated Substrates
 SI110500 (2K)
 SI150500 (1K)
 2x500ml

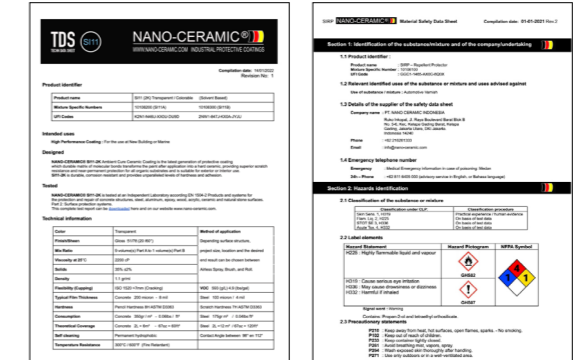
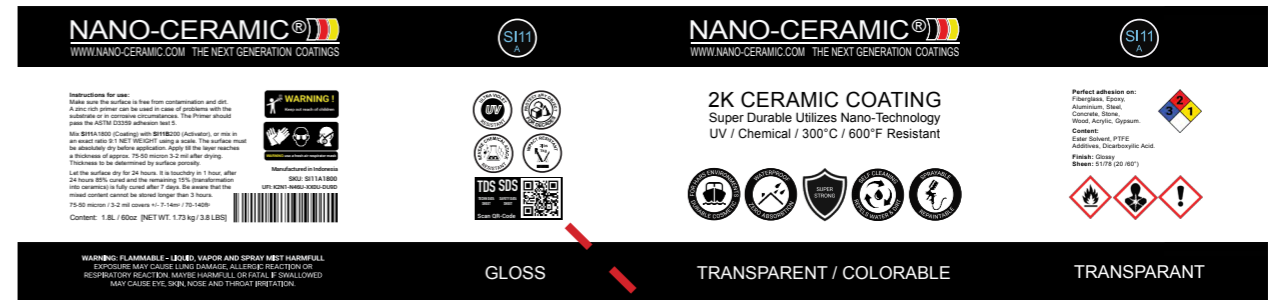


Substrate Kit
 16 different coating and paints

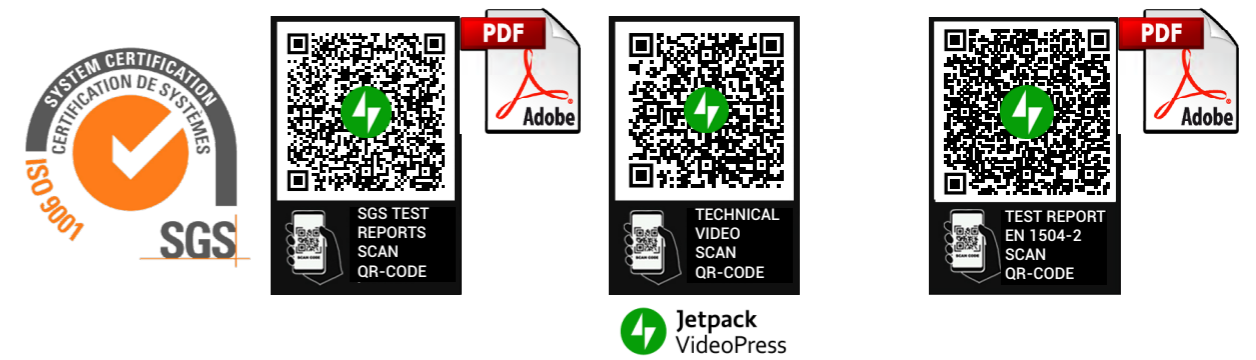


All our products are produced according to EU/ECHA USA/OSHA/EPA CANADA/WHIMS regulations

Scan QR Code for TDS and SDS




Video Application & (Test) Results



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