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.

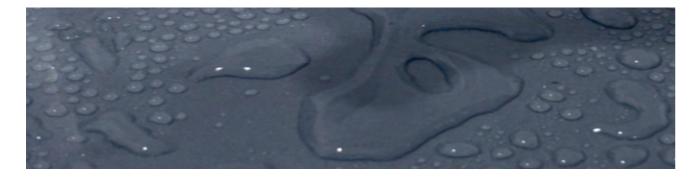
NANO-CERAMIC permanent coating system is 600°F resistant and more than 4 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

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%.

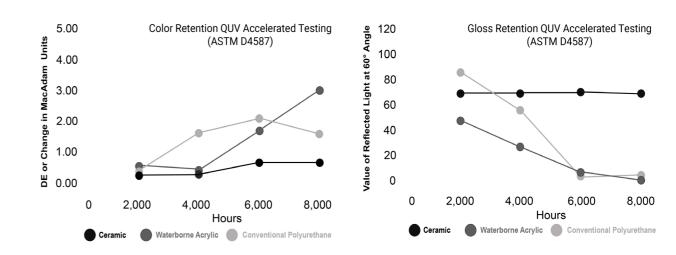
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated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

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

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

Superior in Color & Gloss Retention



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

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

Quality Comparison with traditional coating/paints.

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

04

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

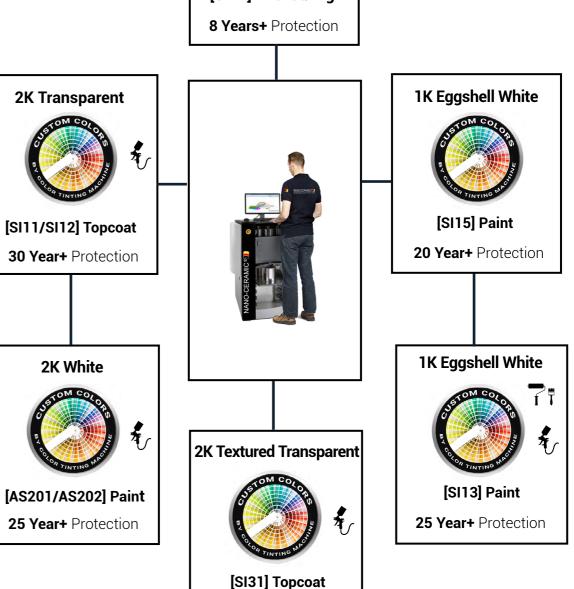
This ensures the highest quality of the final mix in combination with the most economical use of color pigments.



Zinc Rich Primer

(Steel / aluminum surfaces)
Primer must pass
ASTM D3359
adhesion test 5.

A zinc rich primer needs to be used in case of problems with the substrate or in corrosive



30 Year+ Protection

S111/S112 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

: 3 layers $0.06lbs/ft^2 - 0.96oz/ft^2 = 3 mil/ 70ft^2$ 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

: H9 Hardness

06

Used on : Fiberglass, Aluminium, Steel Stone, Marble, Wood,

Ceramics, Fiberglass,

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

tunnels, ships, tanks, verhicles, etc.

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

THE NEW GENERATION COATINGS

Near-permanent

How to use: Page 20



Anti-corrosion



Permanent hydrophobic



Anti-pollution



Anti-algae



UV protection



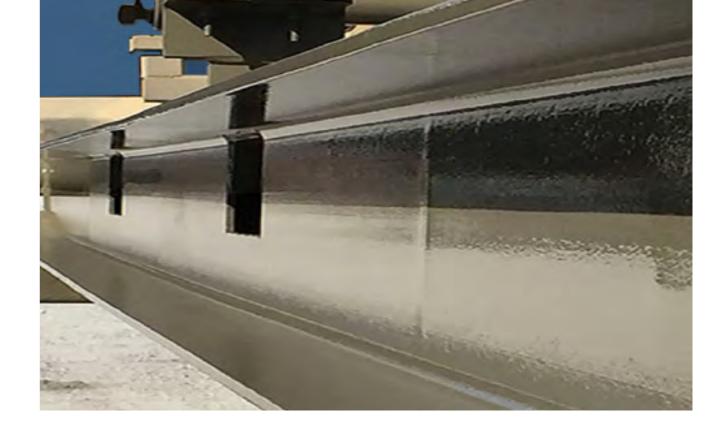
Self-cleaning Stays cleaner longer **Impact Resistance**



Thermal Shock-Resistant

1kg / 2lbs

Expected Life Duration up to 30 years+



Permanent Hydrophobic - Self Cleaning



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S121/S122 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/ft² - 0.56oz/ ft² = 3 mil/120ft² **Reachable area** : 2 layers 0.030lbs/ft² - 0.37oz/ ft² = 2 mil/160ft²

: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, verhicles, 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 Epoxi flooring or repaints .
- · Repaints of ceramic bathroom tiles.
- Zero absorbtion, waterproof.

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

Expected Life Duration up to 25 years+



Thermal Shock - Impact Resistent



SI31 2-Component (2K)

Textured Transparent Semi Gloss antislip - high inpact 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/ft² - 0.25oz/ ft² = 1 mil/270ft²

Hardness : Hs

Used on : Gelcoat, fiberglass, steel, aluminium,

: plastics, wood, virtually any surface.

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

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

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

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

Expecteted Life Duration up to 30 years+



How to use: Page 20





Easy to apply Repaintable



Cut maintenance



Anti-water spot Anti-corrossion



Permanent hydrophobic



Self-cleaning stays cleaner longer



Anti-scratch



Visibility safety



Protects your investment



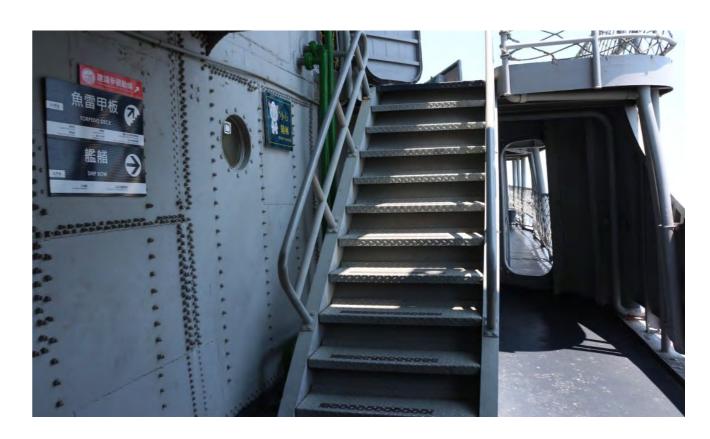
Impact Resistance 2lbs/2.6ft



Safes 10-20% on electricty



Anti Slip - Noice Reduction



S114 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 : H

Used for : Concrete Gelcoat, fiberglass, steel, aluminium,

plastics, wood, virtually any surface.

Application area: Offshore structures, bridges, ships, tanks, land walls

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 Cupper 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+



How to use: Page 20







Cut maintenance costs



Organic Cupper and Tin Non Biocidal



Super Sleek Surface Algea release <6knots



Hydrophobic Hydrophilic



Self-cleaning stays cleaner longer



Save fuel



Impact Resistance 2lbs from 32" hight



Thermal Shock-Resistant



Super Smooth - Saves Fuel



S113 2-Component (2K)

Ceramic Paint

for egg-shell surfaces

Article Nr. : SI132000 67oz / 7.3 lbs White

Consumption : 2 layers $0.050lbs/ft^2 - 0.48oz/ft^2 = 3.5 mil/140ft^2$ **Reachable area** : 1 layers $0.025lbs/ft^2 - 0.24oz/ft^2 = 1.8 mil/280ft^2$

Hardness : H

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.

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

THE NEW GENERATION COATINGS



Near-permanent

How to use: Page 20



Anti-corrosion



Permanent hydrophobic



Anti-pollution



Anti-algae



UV protection



Self-cleaning Stays cleaner longer



Impact Resistance 1kg / 2lbs



Thermal Shock-Resistant

Expected Life Duration up to 25 year+

NANO-CERAMIC®



Passive Cooling - Isolating



NANO-CERAMIC.COM

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S 1 1 5 1-Component (1K)

Ceramic Paint White

for egg-shell surfaces



How to use: Page 20

Article Nr. : SI152000 67oz / 6.6 lbs White

: 2 layers 0.048lbs/ft² - 0.48oz/ ft² = 3.5 mil/140ft² : 1 layers 0.024lbs/ft² - 0.24oz/ ft² = 1.8 mil/280ft²

Viscosity : 20 Hardness : H6

Consumption

Reachable area

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



Near-permanent



Anti-corrosion



Permanent hydrophobic



Anti-pollution



Anti-algae



UV protection
Self-cleaning



Stays cleaner longer
Impact Resistance



Thermal Shock-



Resistant

1kg / 2lbs





Chemical - Temperature Resistant (300°C)



SIXT 2-Component (2K)

Primer Micro Zinc Grey

surface modifier

Article Nr. :SIX12000 67oz/8lbs

: 2 layers $0.030lbs/ft^2 - 0.37oz/ft^2 = 2 mil/160ft^2$ Consumption : 1 layer 0.014lbs/ft² - 0.19oz/ ft² = 1 mil/240ft² Reachable area

Hardness : H7

: Steel, Aluminium and other organic surfaces Used on

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

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





Primer Wood Grain Filler

surface modifier

Article Nr. :SIX22000 67oz/7lbs

: 2 layers 0.04lbs/ft² - 0.64oz/ ft² = 2 mil/140ft² Consumption Reachable area : 1 layer 0.02lbs/ft² - 0.32oz/ ft² = 1 mil/210ft²

: H4 Hardness Used on : Wood

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

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



Fast Repaintable

Fast Repaintable

Excellent adhesion



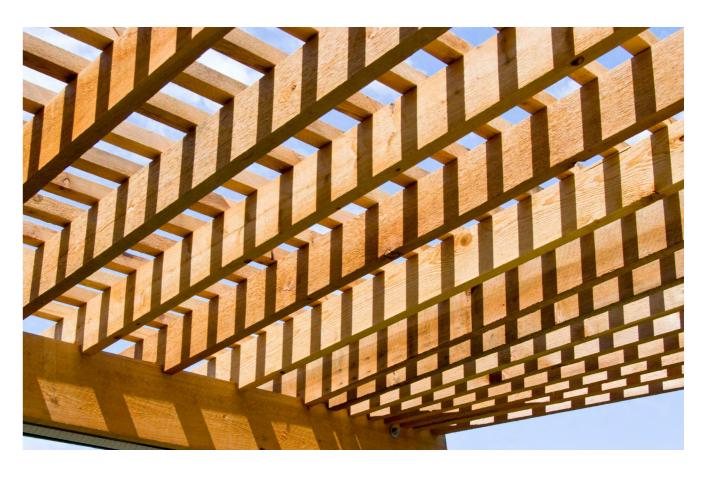
Excellent adhesion



VOC Free



Micro Zinc & Wood Grain Filler



NANO-CERAMIC® NANO-CERAMIC.COM NANO-CERAMIC® NANO-CERAMIC.COM THE NEW GENERATION COATINGS THE NEW GENERATION COATINGS

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

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.



Professional Paint Sprayer





Paint Roller Respirator (Microfiber)

Paint Brush (acrylic)

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.

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 spead 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.

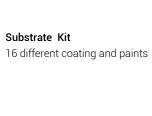
Sample Kits, Test, Touch and Feel

Sales Demo Kit Coated Substrates SI110500 (2K) SI150500 (1K) 16oz



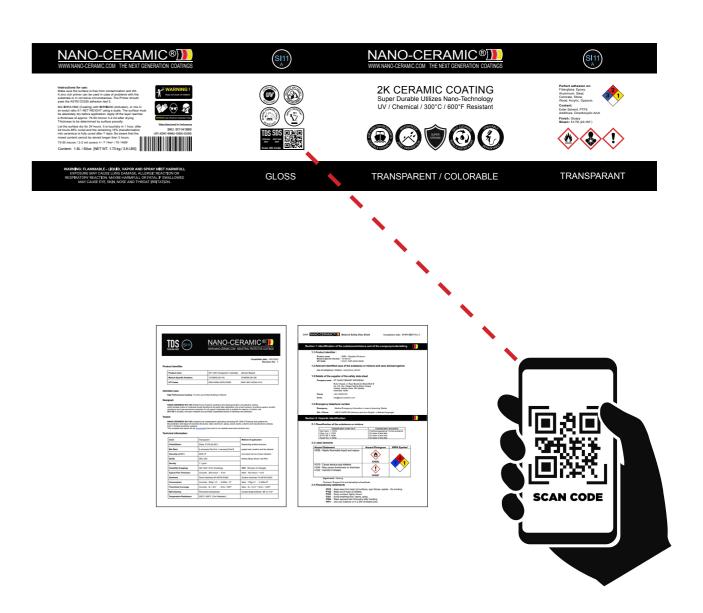
Test Kit	
SI130250	(2K)
SI410250	(2K)
SI210250	(2K)
SI310250	(2K)
SI330250	(2K)
SI110250 - LY	(2K)
8 507	







Scan QR Code for TDS and SDS



Video Application & Result





TEST (EN 1504-2)





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

Dealer