# NANO-CERAMIC.COM ARCHITECTURAL PRO COATINGS



### 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.

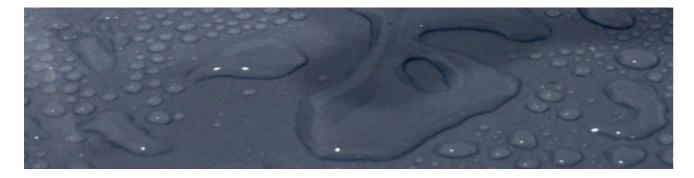
NANO-CERAMIC permanent coating system is 300°C resistant and more than 4 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

#### 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%.

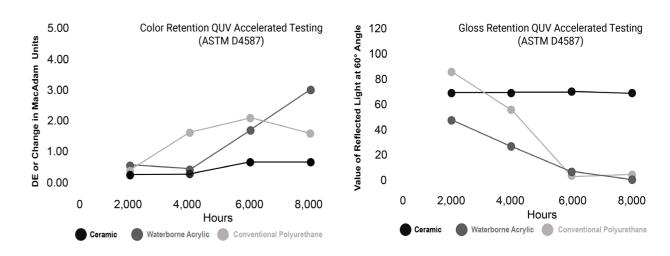
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated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

### 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**



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# 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.

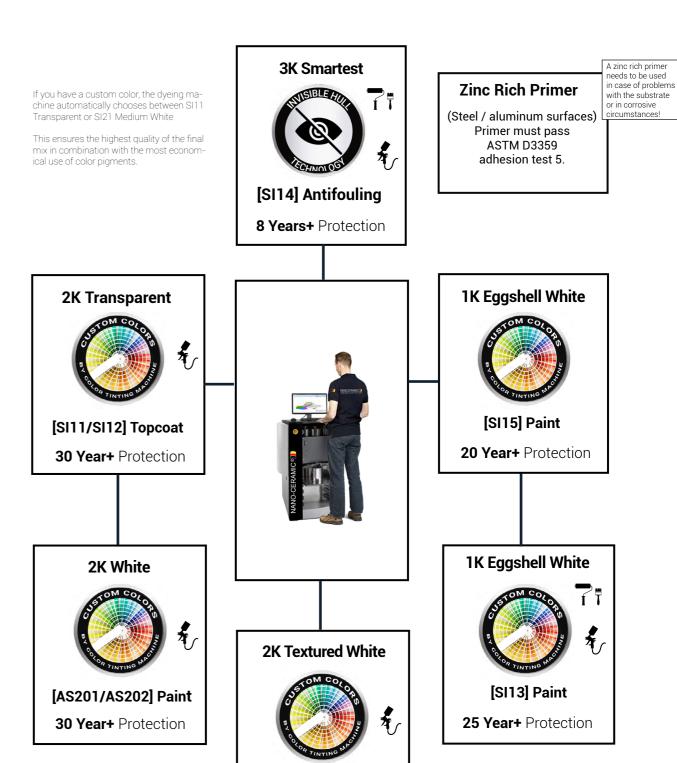
#### **Quality Comparison of paints technologies**

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

04

Characteristics	Acrylic Latex walls ceilings	Acrylic walls floors	<b>Epoxy</b> 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	60°C	91°C	177°C	263°C	300°C
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 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)	<b>60</b> (white)	<b>60</b> (white)	60 (white)	<b>60</b> (white)	88 (white)
Expected Lifetime in Years	<7	<7	<5-15	<5-15	15-30+

#### **Ceramic Coating & Paint System**



[SI41/SI42] Paint

**30 Year+** Protection

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## S111/S112 2-Component (2K)

### **Topcoat Transparent**

for glossy or matte surfaces

Article : SI112000 2L / 1.900gr Transparent Gloss

SI122000 2L / 2.000gr Transparent Matte

**Consumption** : 3 layers +/-  $270 \text{gr/m}^2$  -  $285 \text{ml/m}^2$  75 micron =  $7 \text{m}^2$ **Reachable area** : 2 layers +/-  $180 \text{gr/m}^2$  -  $190 \text{ml/m}^2$  50 micron =  $14 \text{m}^2$ 

:1 layers +/-  $90 \text{gr/m}^2$  -  $95 \text{ml/m}^2$  25 micron =  $21 \text{m}^2$ 

**Hardness** : H9

**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, indoors, or outdoors.

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

tunnels, hotels, private housing, 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 is permanent hydrophobic
- Restores damaged finishes and reduces cleaning intervals.
- · Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C.
   suitable for making walls fire retardant and is most best solution to make rooftops waterproof

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Expected life duration up to 30 years+.

**NANO-CERAMIC®** 



How to use: Page 20







Anti-corrosion



Permanent hydrophobic



Anti-pollution



Anti-algae



UV protection



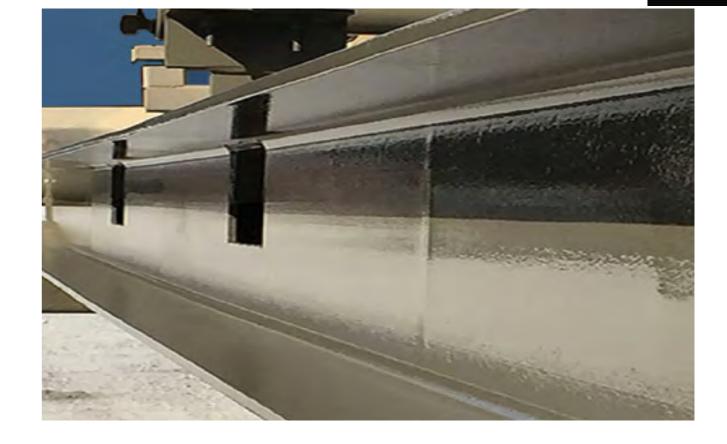
Self-cleaning Stays cleaner longer



Impact Resistance 1kg / 2lbs



Thermal Shock-Resistant



### **Permanent Hydrophobic - Self Cleaning**



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### \$121/\$122 2-Component (2K)

#### **Paint Strongest White**

for glossy and satin surfaces

**Article Nr.** : SI210000 2L / 2.400gr

SI220000 2L / 2.500gr

Consumption :  $3 \text{ layers } +/- 200 \text{gr/m}^2 - 165 \text{ml/m}^2 = 90 \text{ micron} = 12 \text{m}^2$ 

**Reachable area** : 2 layers  $+/- 130 \text{gr/m}^2 - 110 \text{ml/m}^2 60 \text{ micron} = 16 \text{m}^2$ : 1 layer  $+/- 65 \text{gr/m}^2 - 55 \text{ml/m}^2 30 \text{ micron} = 24 \text{m}^2$ 

**Hardness** : H9

**Used for** : The SI21 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, indoors, or outdoors

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

ships, tanks, verhicles, 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 is permanent hydrophobic.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C suitable for making walls fire retardant and 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 1kg / 2lbs



Thermal Shock-Resistant





### **Thermal Shock - Impact Resistent**



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## SI31 2-Component (2K)

### **Textured Transparent Semi Gloss**

antislip - high inpact resistant

Product ID : SI312000 2L / 2.000gr

Consumption : 3 layers  $+/-222 gr/m^2 - 222 ml/m^2 90 micron = 9m^2$ Reachable area  $: 2 \text{ layers } +/- 111 \text{gr/m}^2 - 111 \text{ml/m}^2 \quad 60 \text{ micron} = 18 \text{m}^2$ 

:1 layer +/-  $74gr/m^2$  -  $74ml/m^2$  30 micron =  $27m^2$ 

Hardness : H9

Used on : Gelcoat, fiberglass, steel, aluminium,

: plastics, wood, virtually any surface.

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

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 300°C.
- · Zero absorbtion, waterproof, insulation and heat rejecting

How to use: Page 20



How to use: Page 31



Easy to apply Repaintable



**Cut maintenance** 



Anti-water spot **Anti-corrossion** 



Permanent hydrophobic



Anti-scratch

Self-cleaning

stays cleaner longer



Visibility safety



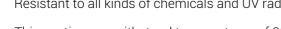
Protects your investment



Impact Resistance 1kg / 80cm



Safes 10-20% on electricty

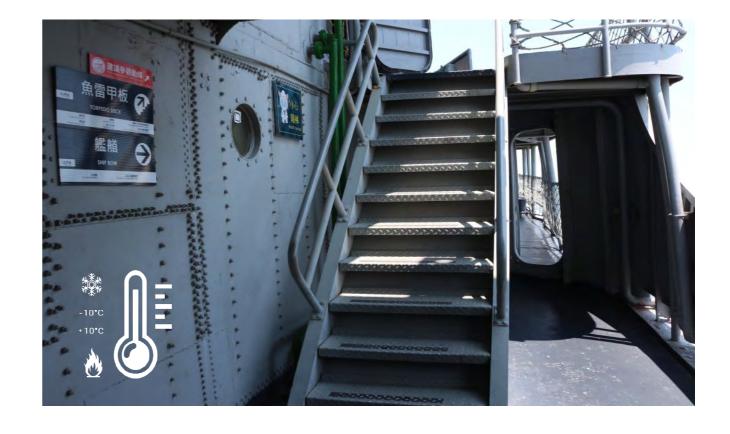








**Anti Slip - Noice Reduction** 



Expected life duration up to 30 years+

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# SI14 3-Component (3K)

### **The Smartest Antifouling**

black/red/blue/grey

**Product ID** : SI144000-BK SI144000-RD 4L/ 4.300gr

: SI144000-BL SI144000-GR 4L/ 4.300gr

Consumption : 2 layers 308gr/m² - 286ml/m² = 200 micron /14m²

Reachable area : 1 layers 154gr/m² - 143ml/m² = 100 micron / 28m²

Hardness : H

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

**Application area**: Marine Antifouling (humid environments)

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 300°C

Expected life duration up to 8 year+





Easy to apply Repaintable

How to use: Page 20



Cut maintenance costs



Organic Cupper and Tin Non Biocidal



Super Sleek Surface Algea release <6knots



Permanent hydrophobic



Self-cleaning stays cleaner longer



Save fuel



Impact Resistance 1kg / 2lbs



Thermal Shock-Resistant



### **Super Smooth - Saves Fuel**



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# SI13 2-Component (2K)

#### **Paint Coolest White**

#### for egg-shell surfaces

**Article Nr.** : SI132000 2L / 3.300 gr White

**Consumption** : 2 layers +/-  $235 \text{gr/m}^2$  -  $143 \text{ml/m}^2$  90 micron =  $14 \text{m}^2$ **Reachable area** : 1 layer +/-  $118 \text{gr/m}^2$  -  $72 \text{ml/m}^2$  45 micron =  $28 \text{m}^2$ 

Hardness : H

**Used for** : The SI13 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, offices airports, offshore structures, bridges,

tunnels, hotels, private housing, etc.

SI13 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 300°C suitable for making walls fire retardant and to make rooftops waterproof.

Near-permanent

How to use: Page 20



Anti-corrosion



hydrophobic

Permanent



Anti-pollution



Anti-algae



UV protection
Self-cleaning



Stays cleaner longer
Impact Resistance



Thermal Shock-Resistant

1kg / 2lbs

Expected life duration up to 25 year+

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### **Passive Cooling - Isolating**



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# S115 1-Component (1K)

#### **Paint Coolest White**

#### for egg-shell surfaces

Article Nr. : SI152000 2L / 3.000 gr White

Consumption  $: 2 \text{ layers} +/- 235 \text{gr/m}^2 - 143 \text{ml/m}^2 90 \text{ micron} = 14 \text{m}^2$ : 1 layer +/-  $118 \text{gr/m}^2$  -  $72 \text{ml/m}^2$  45 micron =  $28 \text{m}^2$ Reachable area

Hardness

Used for

: The SI15 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, offices airports, offshore structures, bridges,

tunnels, hotels, private housing, etc.

SI15 is an incredibly strong 1-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 300°C suitable for making walls fire retardant and to make rooftops waterproof



Near-permanent

How to use: Page 20



**Anti-corrosion** 



Permanent hydrophobic



**Anti-pollution** 



Anti-termite



Anti-algae



**UV** protection



Self-cleaning Stays cleaner longer





Thermal Shock-Resistant



### **Chemical - Temperature Resistant (300°C)**



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SIX1 2-Component (2K)

#### **Primer Epoxy Polyamide**

heavy duty - anti-corrosion

Article Nr. :SIX11250 1.25L / 1.2kg SIX15000 5L / 4.8kg

Consumption : 2 layers  $+/- 240 \text{gr/m}^2 - 250 \text{ml/m}^2 = 80 \text{ micron} = 5 \text{m}^2$ Reachable area : 1 layer +/-  $120 \text{gr/m}^2 - 125 \text{ml/m}^2 + 40 \text{ micron} = 10 \text{m}^2$ 

Hardness

: White, Grey or RAL (RAL Minimum Order 250pcs 5L) Colors

Used on : Concrete, Steel, Aluminium, Fiberglass and other organic

surfaces

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

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 30°C, 1 hours 60°.





Fast Repaintable



**Excellent adhesion** 



#### **Primer PU Wood Filler**

#### surface modifier - absorbtion reducer

Article Nr. :SIX31500 1.5L / 1.4kg

: 2 layers  $+/- 175 \text{gr/m}^2 - 185 \text{ml/m}^2 = 60 \text{ micron} = 8 \text{m}^2$ Consumption Reachable area : 1 layer +/-  $115 \text{gr/m}^2$  -  $95 \text{ml/m}^2$  30 micron =  $12 \text{m}^2$ 

Hardness : H4

**NANO-CERAMIC®** 

Colors : Transparent

Used on : Wood, Natural Stone, and other organic surfaces **Application area** : Buildings, marine, hotels, private housing, etc.

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%.

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Fast Repaintable



NANO-CERAMIC.COM

**Excellent adhesion** 





Micro Zinc & Wood Grain Filler



# SIX5 2-Component (2K)

#### **Putty Polyester**

ultra smooth - sandable

Article Nr. : SIX51000 1.0kg

Colors : Grey

**Used on** : Metal, wood, fiberglass, concrete, plastics

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

private housing, etc.

Fast Repaintable



**Excellent adhesion** 

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

#### **Substrate Kit, Test, Touch and Feel**



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

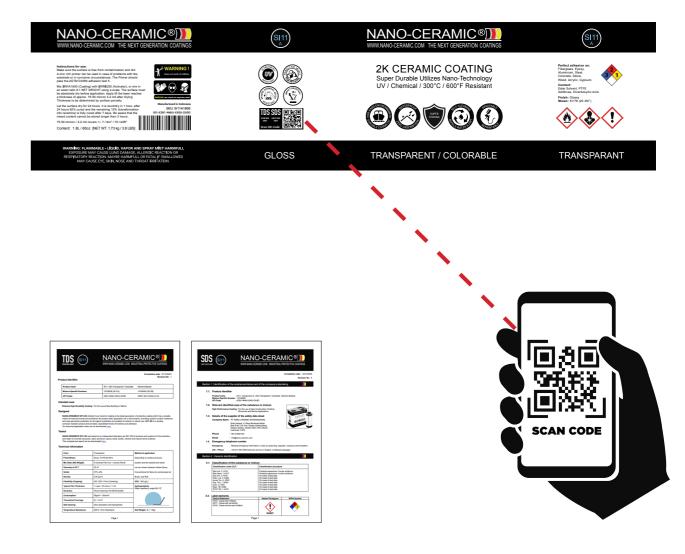








#### Scan QR Code for TDS and SDS



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#### **How to use our Permanent Coating System:**

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

#### **Processing Temperature:**

Ambient temperature: 41-86°F Avoid direct sunlight, Rain and /or high humidity.

#### **IMPORTANT:**

Before you use a NANO-CERAMIC product, please make sure you wear suitable protection gear. We always recommend using a paint suit, respirator mask and latex or nitrile gloves.

#### Outfit/Applicators:



Fresh Air Respirator



### Paint Suit Nitrile gloves

#### **Application information**

The SI11/SI12/SI13/SI14/SI15/SI21/SI22/SI31coatings 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

# MANO CERANGE TO TRANSPORT TRANSPORT TRANSPORT TRANSPORT TO TRANSPORT TRANSPORT TO TRANSPORT TO TRANSPORT TO TRANSPORT TO TRANSPORT TO T

#### for all types of our ceramic paint & coating

**Article Nr.** : SOLV0400 400ml / 345gr

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 400ml / 345gr ACCL0200 200ml / 180gr

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 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. This limited product warranty covers the purchaser for installation in a new building application when installed professionally and supervised by an approved installer. The warranty applies only to newly constructed concrete wall applications, and warrant 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 on our website.

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### The Leader in Durability

#### Did you know?

That our coatings are made of pure silica sand, which is the most common element on Earth?