

NANO-CERAMIC®



WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS



Industrial Objects

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.

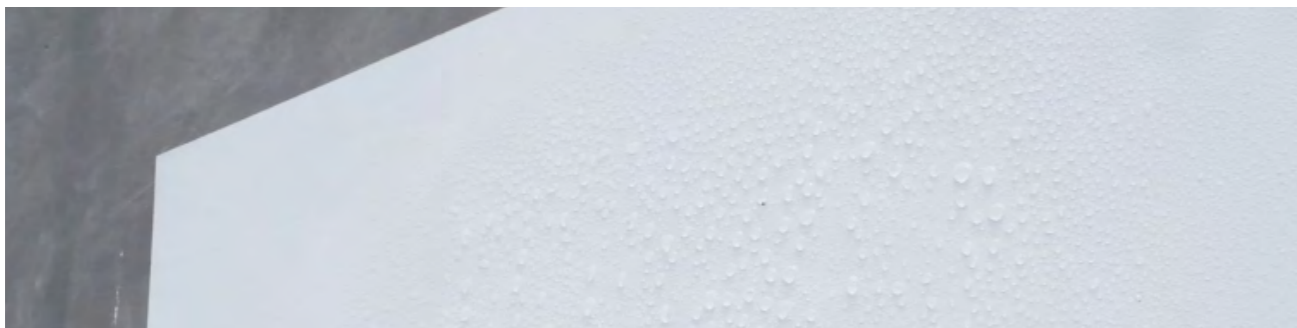
NANO-CERAMIC permanent coating system is 600°F resistant and more than 4 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

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.

Cities are getting hotter today by climate change.

Can NANO-CERAMIC Permanent Coating System cool down buildings??

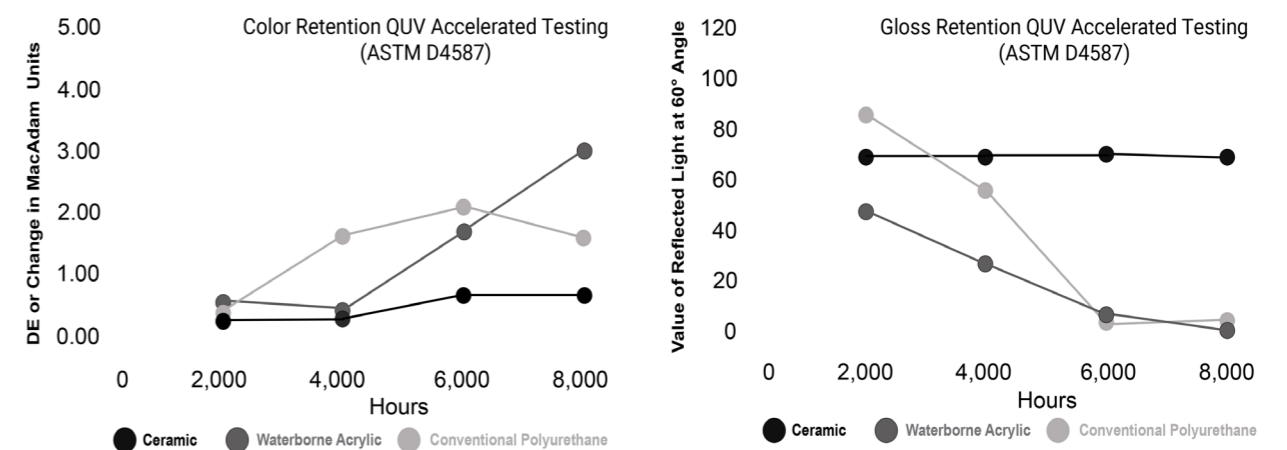
NANO-CERAMIC revolutionary **Coollest White Paint** has superb reflective properties of about 80% of the sun rays. Our **Coollest White Paint** shields buildings by blocking sunlight (passive cooling by +/-42°F), which effectively can reduce annual electricity cost and greenhouse gases.

Our high tech reflective **Coollest White Paint** cools down the heat which means less air-conditioning. NANO-CERAMIC **Coollest White Paint** has an extremely high TSR value (Total Solar Reflectance) of 80.

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.

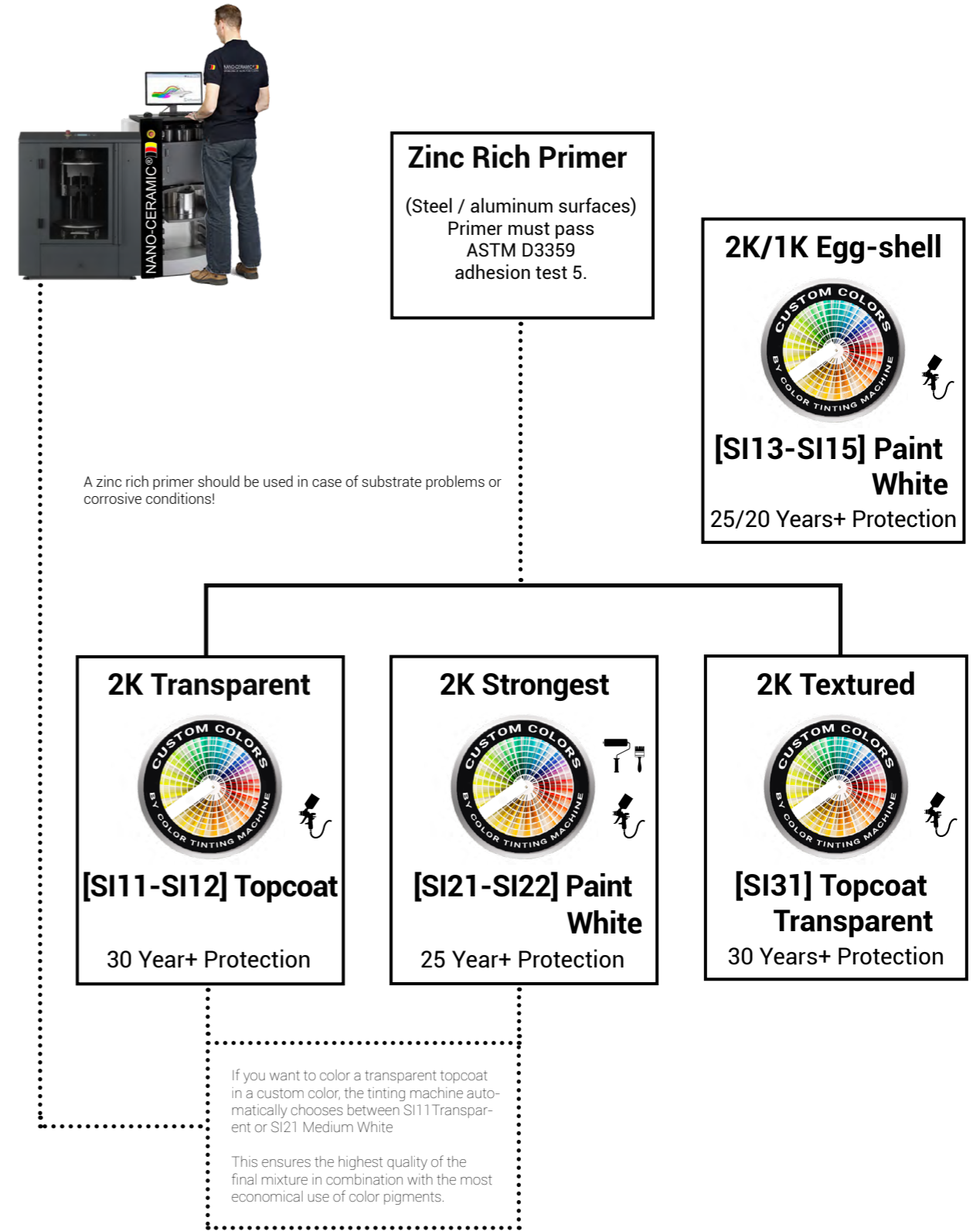
Conventional gelcoats are a mixture with Epoxy or Polyurethane resins, of which the quality of resin and pigments are the most important factor in the ultimate strength. Most have a lifespan of 15 years, with hardness, color and gloss retention (sun fading) and manual mixing towards consistent quality 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.

Characteristics	Acrylic	Epoxi	Polyurethane	Ceramic
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 Strength 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+

Permanent Coating Protection Plan for Industrial Objects





SI11/SI12 2-Component (2K)

Topcoat Transparent for glossy and matt surfaces

Product ID	: SI112000 67oz / 4.2 lbs SI122000 67oz / 4.4 lbs
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 for	: Gelcoat, fiberglass, steel, aluminum, plastics, wood, adiatur tubes, walls, floors practically any surface.
Application field	: Industrial objects

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.

Expected Life Duration up to 30 years+



How to use: Page 10

-  **Easy to apply
Repaintable**
-  **Cut maintenance
costs**
-  **Anti-water spot
Anti-corrosion**
-  **Permanent
hydrophobic**
-  **Self-cleaning
stays cleaner longer**
-  **Impact Resistance
1kg / 2lbs**
-  **Thermal Shock-
Resistant**
-  **Protects your
investment**



SI21/SI22 2-Component (2K)

The Strongest White Paint for glossy and matt surfaces

Product ID	: 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 for	: Gelcoat, fiberglass, steel, aluminum, plastics, wood, adiatur tubes, walls, floors practically any surface.
Application field	: Industrial objects

SI21/SI22 is a medium white 2-component paint that binds molecules and (conversion to ceramic) provides permanent protection on applied surfaces.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating does not absorb any water
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 300°C

Expected Life Duration up to 25 year+



How to use: Page 10

-  **Easy to apply
Repaintable**
-  **Cut maintenance
costs**
-  **Anti-water spot
Anti-corrosion**
-  **Permanent
hydrophobic**
-  **Self-cleaning
stays cleaner longer**
-  **Impact Resistance
1kg / 2lbs**
-  **Thermal Shock-
Resistant**
-  **Protects your
investment**



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.

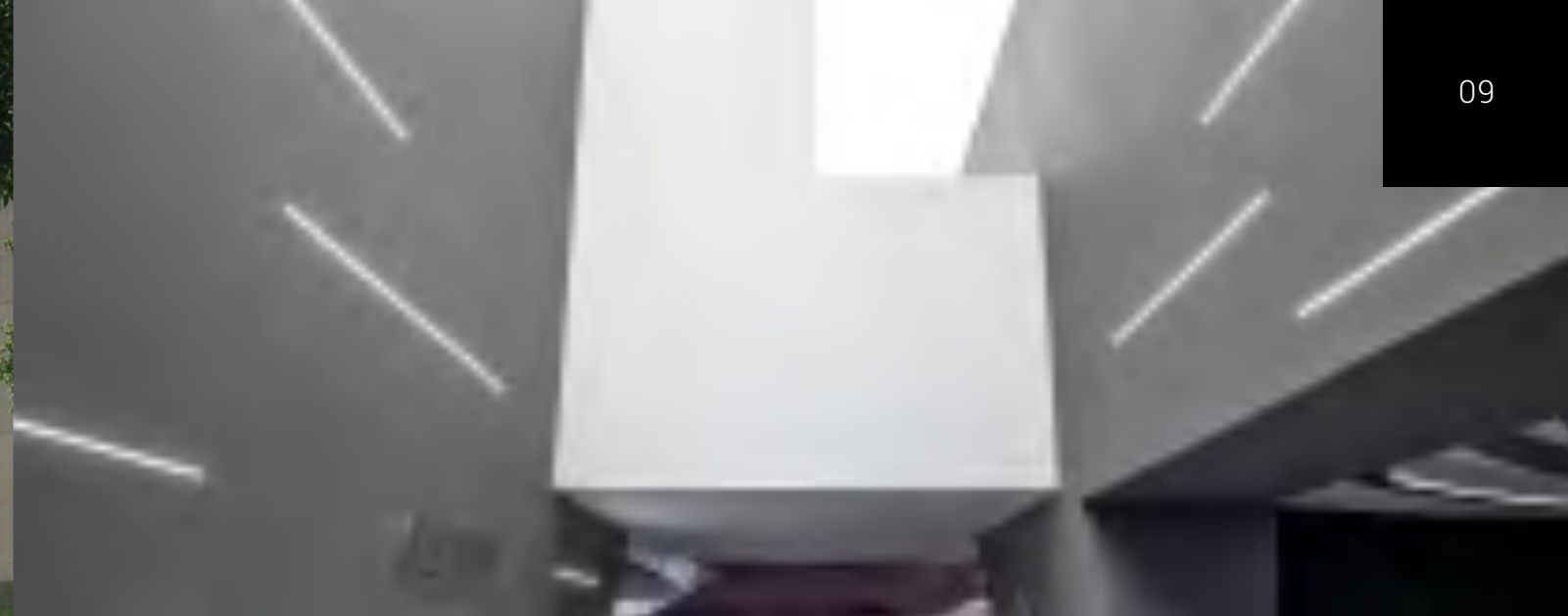
- Easily repels water, dirt, dust, and pollutants.
- This coating has an outstanding hydrophobic effect.
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 600°F.
- Zero absorption, waterproof, insulation and heat rejecting

Expected Life Duration up to 30 years+



How to use: Page 10

-  **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



SI13 (2K) / SI15 (1K)

The Coolest White Paint for egg-shell surfaces

Article Nr.	: SI132000 67oz / 7.3 lbs SI152000 67oz / 6.6 lbs
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	: H7
Used for	: Concrete, steel, wood, acrylic, gypsum
Application field	: Buildings Stations, tunnels, exteriors, interiors

SI13/SI15 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.

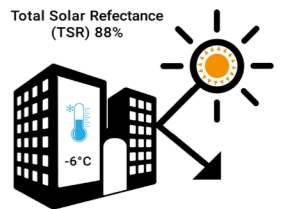
Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating does not absorb any water
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 300°C

Expected Life Duration up to 25 year+ or 20 year+



How to use: Page 10



Total Solar Reflectance (TSR) 88%

-  **Easy to apply**
Repaintable
-  **Cut maintenance costs**
-  **Anti-water spot**
Anti-corrosion
-  **Permanent hydrophobic**
-  **Self-cleaning**
stays cleaner longer
-  **Impact Resistance**
1kg / 2lbs
-  **Thermal Shock-Resistant**
-  **Protects your investment**

How to use our Permant 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



Professional Paint Sprayer
1.3-1.7mm / 0.05-0.06" nozzle

Application information

The SI11/SI12/SI21/SI22/SI31/SI13/SI15 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 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-SI22B-SI31B-SI13B with the can of SI11A-SI12A-SI21A-SI22A-SI31A-SI13A by pouring can B into can A, or measure exactly by net weight in a ratio of 7:3 and mix very well. Mix the can of SI21B with the can of SI21A by pouring can B into can A, or measure exactly by net weight in a ratio of 9:1 and mix thoroughly with a power agitator. Carefully pour the mixed contents into a professional paint sprayer, and spray in thin layers until the surface reaches your required thickness. 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.

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 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.

SIX1

2-Component (2K)

Primer Micro Zinc Grey

surface modifier



Article Nr. : SIX12000 67oz / 8 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



Fast Repaintable



Excellent adhesion

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

SIX2

1-Component (1K)

Primer Wood Grain Filler

surface modifier



Article Nr. : SIX22000 67oz / 7 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



Fast Repaintable



Excellent adhesion

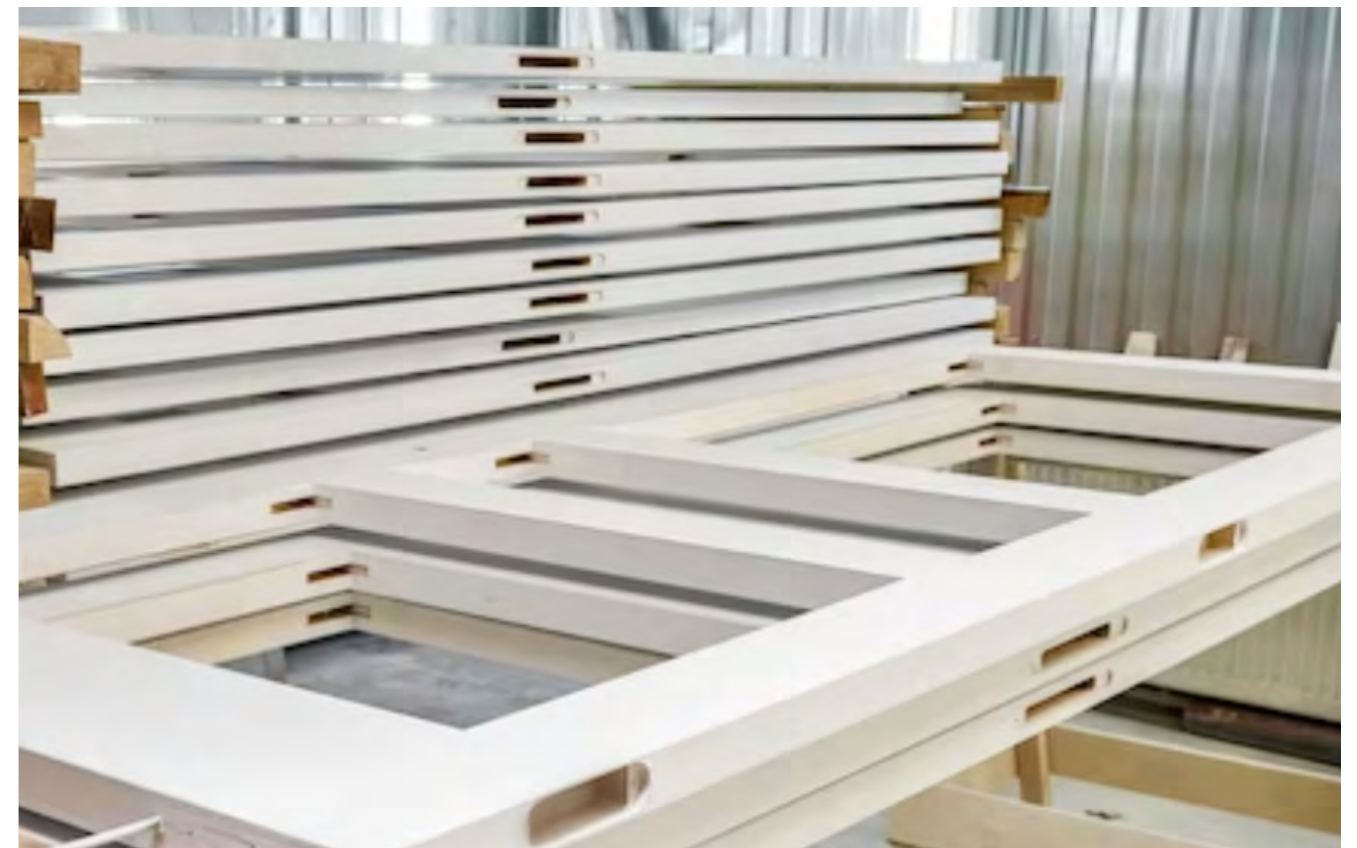


VOC Free

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%.



Micro Zinc & Wood Grain Filler



Sample Kits, Test, Touch and Feel

Sales Demo Kit

- Coated Substrates
- SI110500 (2K)
- SI150500 (1K)
- 16oz



DEMOPKIT

Test Kit

- SI130250 (2K)
- SI410250 (2K)
- SI210250 (2K)
- SI310250 (2K)
- SI330250 (2K)
- SI110250 - LY (2K)
- 8.5oz



DEMOTKIT

Substrate Kit

16 different coating and paints



DEMOSKIT

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

Scan QR Code for TDS and SDS

NANO-CERAMIC®
WWW.NANO-CERAMIC.COM THE NEXT GENERATION COATINGS

SI11
A

Instructions for use:
Mix the 2K coating with the 1K hardener in the ratio of 1:1 by volume. The mixture must be applied immediately after mixing. The primer should be applied to the substrate before the coating. The primer should be applied to the substrate before the coating. The primer should be applied to the substrate before the coating.

Let the surface dry for 24 hours. It is ready to use 1 hour after 24 hours 80% cured and the remaining 20% crosslinking will be completed in 72 hours. The amount that the solvent content cannot be allowed longer than 3 hours.

75-85 degrees F (23-29 degrees C) 1 Year / 10 Years

Content: 1.8L / 60oz (NET WT. 1.73 kg / 3.81 LBS)

2K CERAMIC COATING
Super Durable Utilizes Nano-Technology
UV / Chemical / 300°C / 600°F Resistant

Perfect adhesion on:
Fiberglass, Epoxy, Aluminum, Steel, Concrete, Stone, Wood, Acrylic, Copper

Content:
Epoxy Resin, PPSG Additive, Diisocyanate Acid

Finish: Glossy
Sheen: 9178 (20-80°)

WARNING!
FLAMMABLE - LIQUID VAPOR AND SPRAY MIST HARMFUL EXPOSURE MAY CAUSE LUNG DAMAGE, ALLERGIC REACTION OR RESPIRATORY REACTION. MAY BE HARMFUL OR IRRITATING. MAY CAUSE EYE, SKIN, NOSE AND THROAT IRRITATION.

SDS

GLOSS **TRANSPARENT / COLORABLE** **TRANSPARENT**

TDS

NANO-CERAMIC®
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Product Identifier:
Product Name: 2K CERAMIC COATING
Product Number: SI110500
Product Code: SI110500

Material uses:
For use on metal, plastic, wood, and other substrates.

Warnings:
Flammable - Liquid Vapor and Spray Mist Harmful. Exposure may cause lung damage, allergic reaction or respiratory reaction. May be harmful or irritating. May cause eye, skin, nose and throat irritation.

Technical information:

Property	Value	Method of analysis
Color	Black	Visual inspection
Appearance	Black, glossy finish	Visual inspection
Viscosity	~100 cP	Brookfield DV-3E
Density	~1.73 g/cm³	ASTM D153
Volume	1.8L / 60oz	Volume measurement
Weight	1.73 kg / 3.81 LBS	Weight measurement
Net Weight	1.73 kg / 3.81 LBS	Weight measurement
Gross Weight	~2.5 kg / 5.5 LBS	Weight measurement
Net Content	1.8L / 60oz	Volume measurement
Gross Content	~2.5 kg / 5.5 LBS	Weight measurement
Net Weight	1.73 kg / 3.81 LBS	Weight measurement
Gross Weight	~2.5 kg / 5.5 LBS	Weight measurement

SDS

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product name:
2K CERAMIC COATING

1.2 Recommended uses of the substance or mixture and uses not recommended:
For use on metal, plastic, wood, and other substrates. Do not use on food contact surfaces.

1.3 Details of the supplier of the safety data sheet:
NANO-CERAMIC®
WWW.NANO-CERAMIC.COM

1.4 Emergency telephone number:
+1 800 875 5376

Section 2: Hazard identification

2.1 Classification of the substance or mixture:
Flammable - Liquid Vapor and Spray Mist Harmful

2.2 Label elements:
GHS02 (Flammable - Liquid Vapor and Spray Mist Harmful)
GHS05 (Corrosive)
GHS07 (Health Hazard)
GHS09 (Environment)

2.3 Precautionary statements:
P201+P202 (Attention)
P231+P232 (Keep tightly closed)
P240 (Wear protective gloves)
P241 (Wear eye protection)
P242 (Wear protective clothing)
P243 (Wear respiratory protection)
P273 (Avoid release to the environment)
P501 (Dispose of contents in accordance with local, state, and federal regulations)



Video Application & Test Results

VIDEO RESULT SCAN QR-CODE

TEST REPORT PC.SYS SCAN Qr CODE

NANO-CERAMIC®

WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS



The Leader in Durability

Did you know?

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

Dealer