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 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.

Cities are getting hotter today by climate change.

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

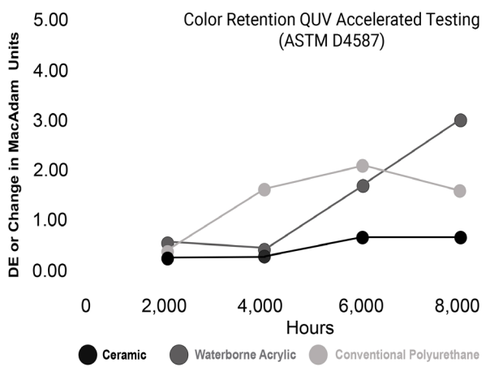
NANO-CERAMIC revolutionary **Coolest White Paint** has superb reflective properties of about 80% of the sun rays. Our **Coolest White Paint** shields buildings by blocking sunlight (passive cooling by +/- 6°C), which effectively can reduce annual electricity cost and greenhouse gases.

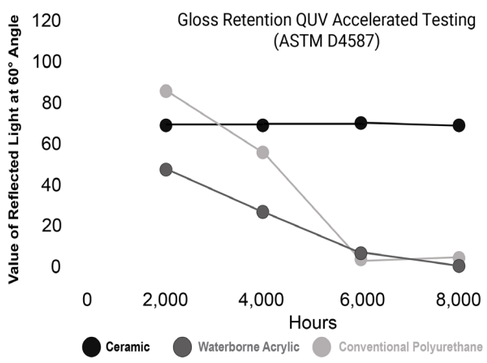
Our high tech reflective **Coolest White Paint** cools down the heat which means less air-conditioning. NANO-CERAMIC **Coolest White Paint** has an extremely high TSR value (Total Solar Reflectance) of 80.

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	**91°C**	177°C	263°C	300°C
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 inYears	**<7**	<15	<15	30+

Permanent Coating Protection Plan for Industrial Objects

Zinc Rich Primer

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

A zinc rich primer should be used in case of substrate problems or corrosive conditions!

2K/1K Egg-shell

[SI13-SI15] Paint White

25/20 Years+ Protection

2K Transparent

[SI11-SI12] Topcoat

30 Year+ Protection

2K Strongest

[SI21-SI22] Paint White

25 Year+ Protection

2K Textured Transp

[SI31] Topcoat

30 Years+ Protection

If you want to color a transparent topcoat in a custom color, the tinting machine automatically chooses between SI11Transparent or SI21 Medium White

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

SI11/SI12 2-Component (2K)

Topcoat Transparent
for glossy and matt surfaces

How to use: Page 10

Product ID : SI112000 2L / 1.900gr SI122000 2L / 2.000gr

Consumption : 3 layers +/- 270gr/m² - 285ml/m² 75 micron = 7m²

Reachable area : 2 layers +/- 180gr/m² - 190ml/m² 50 micron = 14m²

: 1 layers +/- 90gr/m² - 95ml/m² 25 micron = 21m²

Hardness : H9

Used for : Gelcoat, fiberglass, steel, aluminum, plastics, wood, adiator tubes, walls, floors practically any surface.

Application field : Industrial objects

If you want to color a transparent topcoat in a custom color, the tinting machine automatically chooses between SI11Transparent or SI21 Medium White

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

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+

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

How to use: Page 10

Product ID : SI212000 2L / 2.400gr SI222000 2L / 2.500gr

Consumption : 3 layers +/- 200gr/m² - 165ml/m² 90 micron = 12m²

Reachable area : 2 layers +/- 130gr/m² - 110ml/m² 60 micron = 16m²

: 1 layer +/- 65gr/m² - 55ml/m² 30 micron = 24m²

Hardness : H8

Used for : Gelcoat, fiberglass, steel, aluminum, plastics, wood, adiator tubes, walls, floors practically any surface.

Application field : Industrial objects

If you want to color a transparent topcoat in a custom color, the tinting machine automatically chooses between SI11Transparent or SI21 Medium White

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

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 30 years+

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

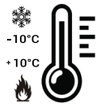
Protects your investment

SI31 2-Component (2K)

Textured Transparent Semi Gloss
antislip - high inpact resistant

How to use: Page 10

Product ID : SI412000 2L / 2.000gr
Consumption : 3 layers +/- 222gr/m² - 222ml/m² 90 micron = 9m²
Reachable area : 2 layers +/- 111gr/m² - 111ml/m² 60 micron = 18m²
: 1 layer +/- 74gr/m² - 74ml/m² 30 micron = 27m²
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 300°C.
- Zero absorbtion, waterproof, insulation and heat rejecting

Expected life duration up to 30 years+

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

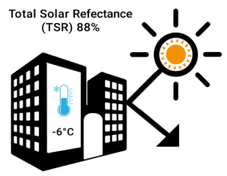
Impact Resistance
1kg / 80cm

SI13 (2K) / SI15 (1K)

Paint Coolest White
for egg-shell surfaces

How to use: Page 10

Article Nr. : SI132000 2L / 3.300gr SI152000 2L / 3.000gr
Consumption : 2 layers +/- 235gr/m² - 143ml/m² 90 micron = 14m²
Reachable area : 1 layer +/- 118gr/m² - 72ml/m² 45 micron = 28m²
Hardness : H7/H6
Used for : Concrete, steel, wood, acrylic, gypsum
Application field : Buildings, tunnels, walls, ceilings, 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+

Easy to apply
Repaintable

Cut maintenance
costs

Anti-water spot
Anti-corrossion

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: 5-30°C
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.

Paint Roller
(Microfiber)

Respirator

Paint Brush
(acrylic)

SOLV Thinner solvent

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.

RETA/ACCL 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.

SIX1

2-Component (2K)

Primer Micro Zinc Grey
heavy duty - anti-corrosion

Article Nr.	: SIX12000 2L / 3.665gr
Consumption	: 2 layers +/- 130gr/m² - 110ml/m² 60 micron = 16m²
Reachable area	: 1 layer +/- 65gr/m² - 55ml/m² 30 micron = 24m²
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 30°C, 1 hours 60°.

SIX2

1-Component (1K)

Primer Wood Grain Filler
surface modifier - absorbtion reducer

Article Nr.	: SIX12000 2L / 3.250gr
Consumption	: 2 layers +/- 130gr/m² - 110ml/m² 50 micron = 16m²
Reachable area	: 1 layer +/- 65gr/m² - 55ml/m² 25 micron = 24m²
Hardness	: H4
Used on	: Aluminium, concrete, wood and other organic surfaces
Application area	: Buildings, marine, airports, bridges

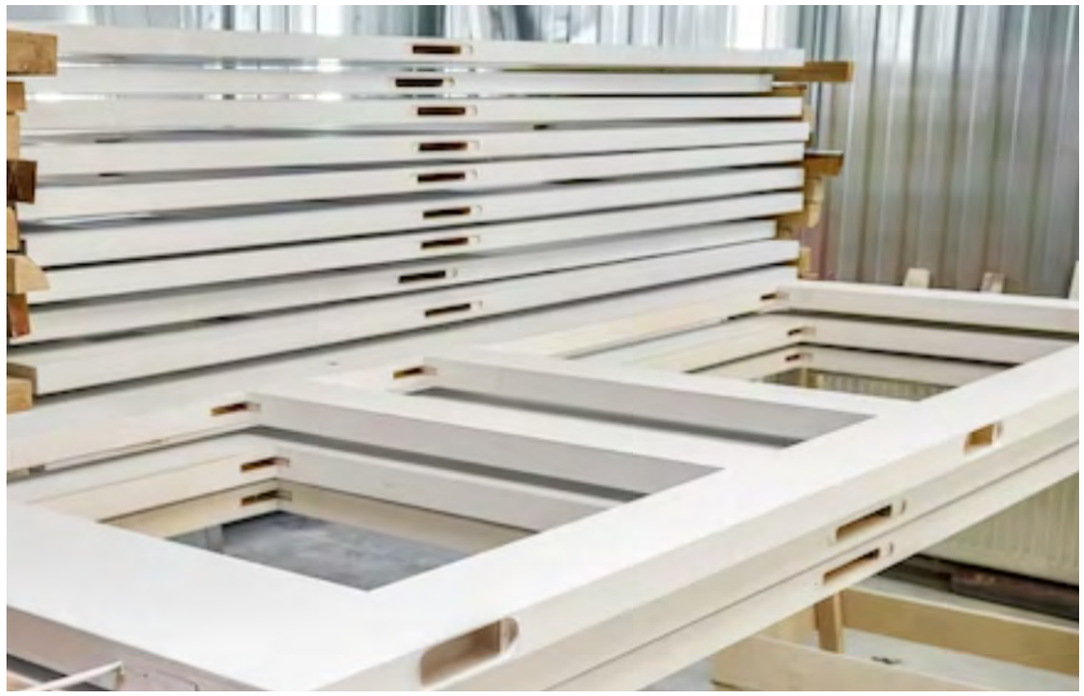
Fast Repaintable

Excellent adhesion

VOC Free

SIX2 is a waterborne wood filler. This primer is used as surface modification for, wood or concrete 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)
2x500ml

DEMOPKIT

Test Kit
SI130250 (2K)
SI410250 (2K)
SI210250 (2K)
SI310250 (2K)
SI330250 (2K)
SI110250 - LY (2K)
6x 250ml

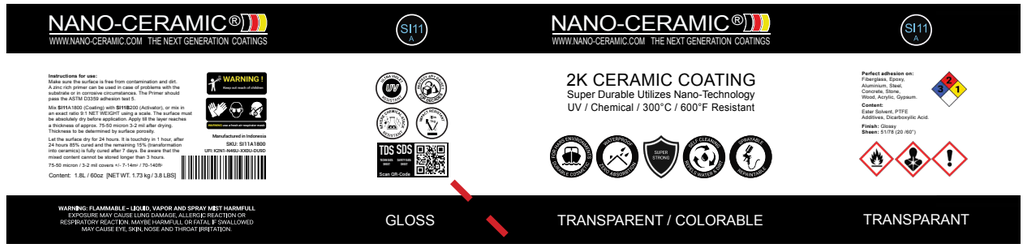
DEMOTKIT

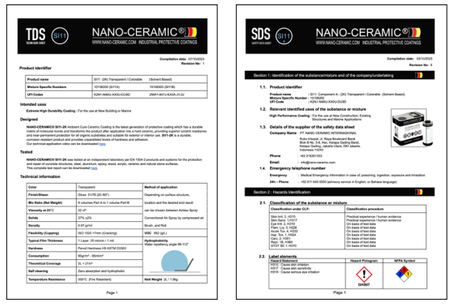
Substrate Kit
16 different coating and paints

DEMOSKIT

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

Scan QR Code for TDS and SDS





Video Application & Test Results

VIDEO RESULT SCAN QR-KODE

YouTube

TEST REPORT PC.SYS SCAN Qk CODE

PDF Adobe

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