





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.

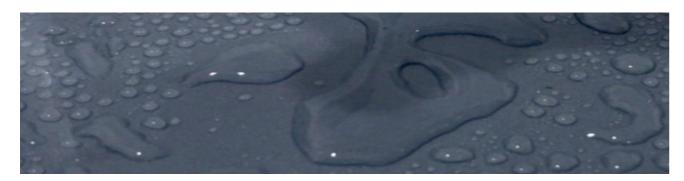
NANO-CERAMIC permanent coating system is 300°C resistant and more than 4 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

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%.

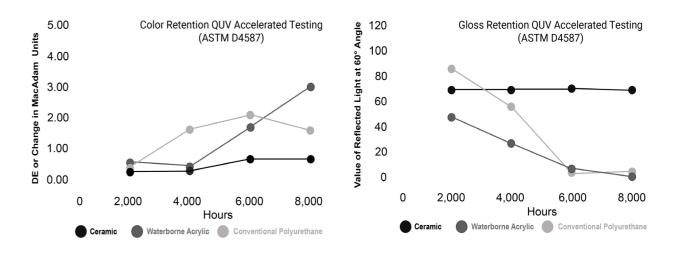
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated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

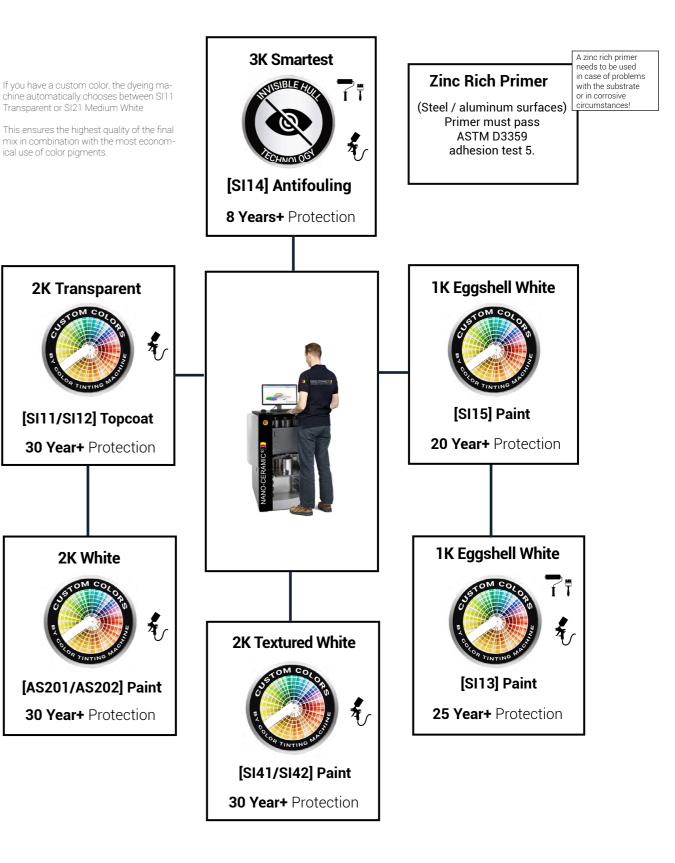
Conventional gelcoats are a mixture with Epoxy or Polyurethane resins, of which the quality of resin and pigments are the most important factor in the ultimate strength. Most have a lifespan of 15 years, with hardness, color and gloss retention (sun fading) and manual mixing towards consistent quality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

Quality Comparison with traditional coating/paints.

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

	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	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	Νο	No	Yes
Anti-Termite (Wood)	Νο	Νο	Νο	Yes
Hydrophobic Self Cleaning	Νο	Νο	Νο	Yes
Easy to Clean	Νο	Νο	No	Yes
Total Solar Reflectance (TSR)	60 (white)	60 (white)	60 (white)	88 (white)
Expected Lifetime inYears	<7	<15	<15	30+

Ceramic Coating & Paint System



SI11/SI12 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 +/- 270gr/m ² - 285ml/m ² 75 micron = 7m ²	
Reachable area	: 2 layers +/- 180gr/m ² - 190ml/m ² 50 micron = 14m ²	
	:1 layers +/- 90gr/m ² - 95ml/m ² 25 micron = 21m 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

Expected life duration up to 30 years+.

	Near-permanent
	Anti-corrosion
	Permanent hydrophobic
	Anti-pollution
	Anti-algae
	UV protection
*	Self-cleaning Stays cleaner longe
	Impact Resistance 1kg / 2lbs
	Thermal Shock- Resistant

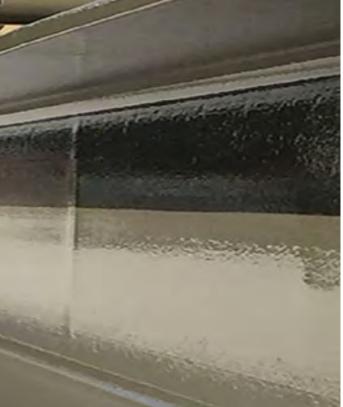
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How to use: Page 20

Permanent Hydrophobic - Self Cleaning



NANO-CERAMIC®



SI21/SI22 2-Component (2K)

Paint Strongest White for glossy and satin surfaces

Article Nr.	: SI210000 2L / 2.400gr
	SI220000 2L / 2.500gr
Consumption	: 3 layers +/- 200gr/m ² - 165ml/m ² 90 micron = 12m ²
Reachable area	: 2 layers +/- 130gr/m ² - 110ml/m ² 60 micron = 16m ²
	:1 layer +/- 65gr/m ² - 55ml/m ² 30 micron = 24m 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.

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. ٠
- 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+

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How to use: Page 20

Near-permanent

Anti-corrosion

Permanent

hydrophobic

Anti-pollution

Anti-algae

UV protection

Self-cleaning

1kg / 2lbs

Stays cleaner longer

Impact Resistance

Thermal Shock-Resistant

 $\mathbf{\mathbf{+}}$

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Thermal Shock - Impact Resistent

Textured Transparent Semi Gloss

antislip - high inpact resistant

Product ID	: SI312000 2L / 2.000gr
Consumption	: 3 layers +/- 222gr/m ² - 222ml/m ² 90 micron = 9m ²
Reachable area	: 2 layers +/- 111gr/m ² - 111ml/m ² 60 micron = 18m 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.
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

How to use: Page 20

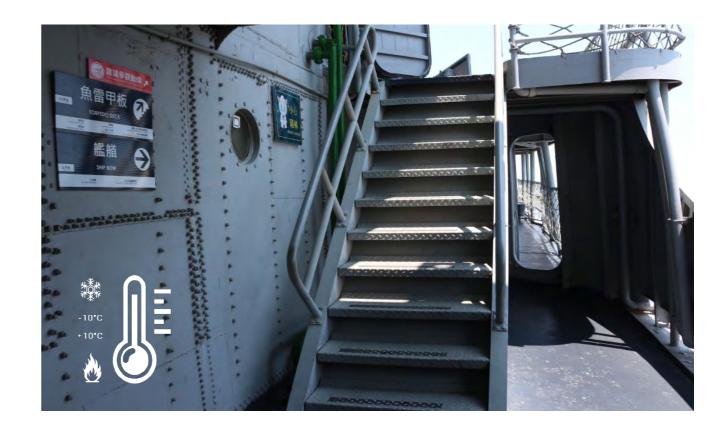


How to use: Page 31

Easy to apply Repaintable Cut maintenance ¢₿ Anti-water spot Anti-corrossion Permanent hydrophobic Self-cleaning $\mathbf{\mathbf{\mathbf{A}}}$ stays cleaner longer Anti-Scratch Anti-scratch ۲ Visibility safety Protects your **†**\$ investment Impact Resistance and the second 1kg / 80cm Safes 10-20% on electricty



Anti Slip - Noice Reduction



Expected life duration up to 30 years+

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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/m ² - 286ml/m ² = 200 micron /14m ²	
Reachable area	: 1 layers 154gr/m ² - 143ml/m ² = 100 micron / 28m ²	
Hardness	:H7	
Used for	: Gelcoat, fiberglass, steel, aluminium, plastics, wood	
Application area	: Marine Antifouling (humid environments)	



How to use: Page 20

Easy to apply Repaintable

Non Biocidal

Permanent

hydrophobic

Self-cleaning

Save fuel

1kg / 2lbs

Resistant

Cut maintenance costs

Organic Cupper and Tin

Super Sleek Surface

stays cleaner longer

Impact Resistance

Thermal Shock-

Algea release <6knots

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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+

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Super Smooth - Saves Fuel



NANO-CERAMIC®



SI13 2-Component (2K)

Paint Coolest White for egg-shell surfaces

Article Nr.



How to use: Page 20

Consumption Reachable area Hardness	: 2 layers +/- 235gr/m ² - 143ml/m ² 90 micron = 14m ² : 1 layer +/- 118gr/m ² - 72ml/m ² 45 micron = 28m ² : H7	
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	
Application area	unpainted surfaces, walls, ceilings indoors, or outdoors : Buildings, offices airports, offshore structures, bridges, tunnels, hotels, private housing, etc.	

: SI132000 2L / 3.300 gr White

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.

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

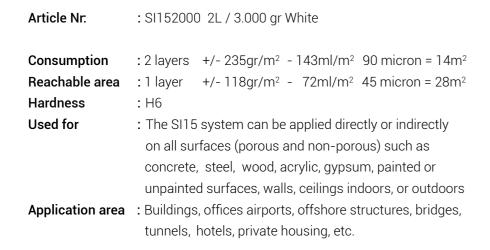
Passive Cooling - Isolating





SI15 1-Component (1K)

Paint Coolest White for egg-shell surfaces



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

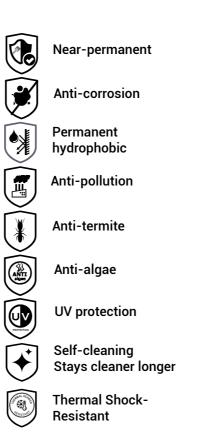
Expected life duration up to 20 years+



How to use: Page 20



Chemical - Temperature Resistant (300°C)





NANO-CERAMIC®

SIX1 2-Component (2K)

Primer Micro Zinc Grey heavy duty - anti-corrosion



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





Micro Zinc & Wood Grain Filler



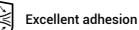
Primer Wood Grain Filler surface modifier - absorbtion reducer

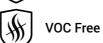
Article Nr.	:SIX12000 2L/3.250gr		
Consumption	: 2 layers	+/- 130gr/m ² - 110ml/m ²	50 micron = 16m ²
Reachable area	:1 layer	+/- 65gr/m ² - 55ml/m ²	25 micron = 24m ²
Hardness	:H4		
Used on	: Aluminiu	ım, concrete, wood and other	r organic surfaces
Application area	: Buildings, marine, airports, bridges		

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%.



Fast Repaintable







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/SI31 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 guicker, 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.





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.

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.

Paint Suit

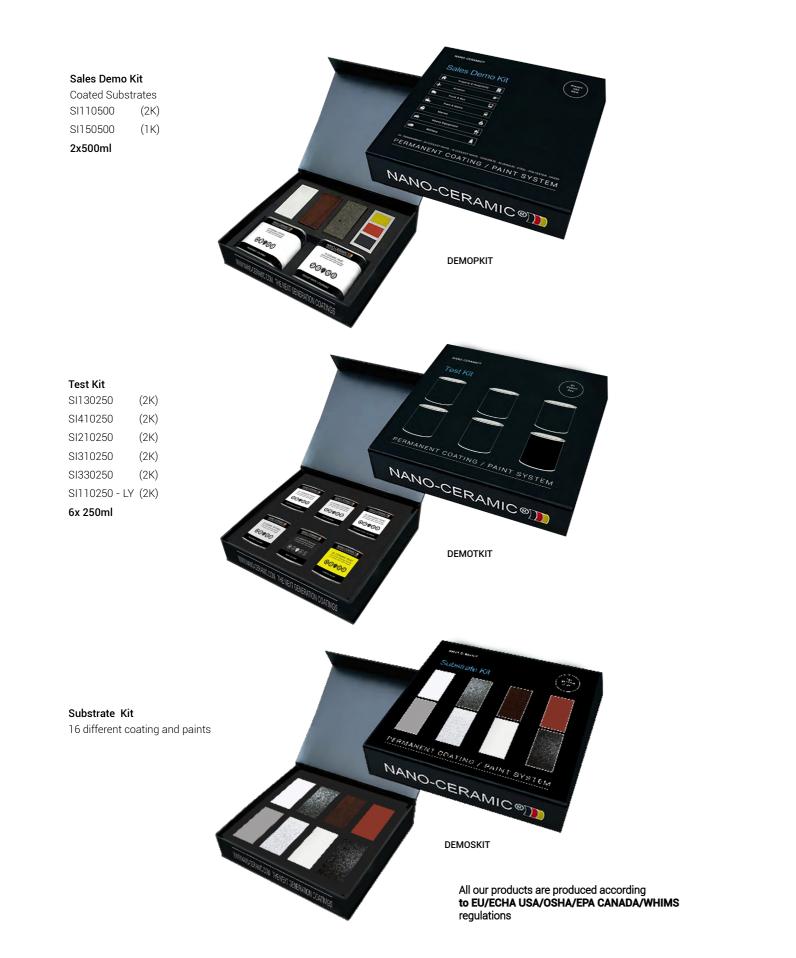
NANO-CERAMIC.COM





:RETA0400 400ml / 345gr ACCL0200 200ml / 180gr









Video Application & Result









TEST (EN 1504-2)



There is no better option than to use NANO-CERAMIC

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