

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 nearpermanent 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??

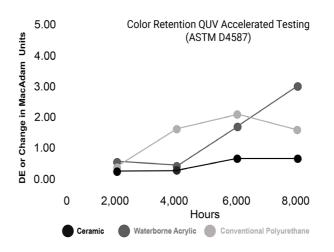
NANO-CERAMIC revolutionary **Coolest White Paint** has superb reflective properties of about 80% of the sun rays. Our **Coolest White Paint** shields buildings by blocking sunlight (passive cooling by +/- 6°C), which effectively can reduce annual electricity cost and greenhouse gases.

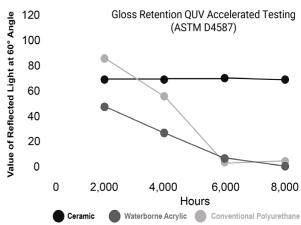
Our high tech reflective **Coolest White Paint** cools down the heat which means less airconditioning. NANO-CERAMIC **Coolest White Paint** has an extremely high TSR value (Total Solar Reflectance) of 80.

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 of paints technologies

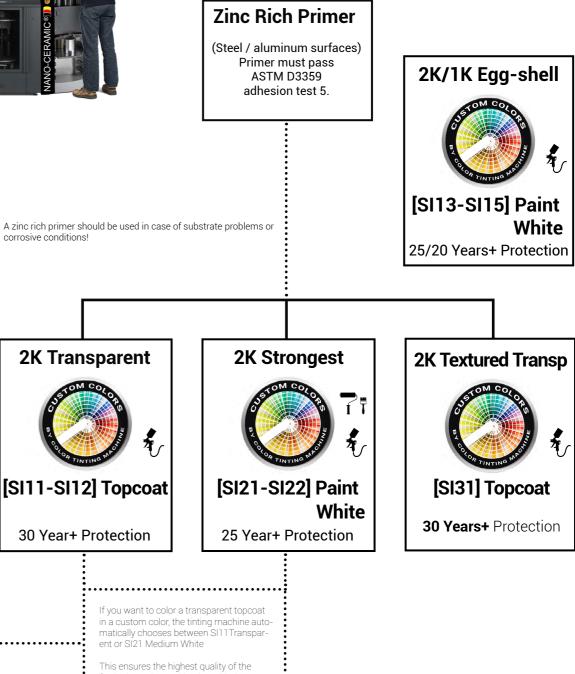
In case written in bold font it means existing shortcomings in quality.

Characteristics	Acrylic Latex walls ceilings	Acrylic walls floors	Epoxy 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)	60 (white)	60 (white)	60 (white)	60 (white)	88 (white)
Expected Lifetime in Years	<7	<7	<5-15	<5-15	15-30+

Permanent Coating Protection Plan for Industrial Objects



corrosive conditions! 2K Transparent [SI11-SI12] Topcoat 30 Year+ 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

Product ID	: SI112000 2L / 1.900gr SI122000 2L / 2.000gr		
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	: Gelcoat, fiberglass, steel, aluminum, plastics, wood,		
	adiator 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
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Easy to apply Repaintable Cut maintenance costs

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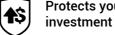
Anti-water spot Anti-corrossion

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

:SI212000) 2L / 2.400gr SI2220	
: 3 layers	+/- 200gr/m ² - 165m	
: 2 layers	+/- 130gr/m ² - 110m	
:1 layer	+/- 65gr/m ² - 55m	
:H8		
: Gelcoat, fiberglass, steel, alumin		
adiator tu	ubes, walls, floors pract	
: Industrial objects		
	: 3 layers : 2 layers : 1 layer : H8 : Gelcoat, f adiator tu	

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+

000 2L / 2.500ar ml/m^2 90 micron = $12m^2$ ml/m^2 60 micron = 16m² nl/m^2 30 micron = 24 m^2

inum, plastics, wood, ctically any surface.



How to use: Page 10



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



SI31 2-Component (2K)

Textured Transparent Semi Gloss



How to use: Page 10



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Anti-Scratch

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Cut maintenance

Anti-water spot Anti-corrossion

Permanent hydrophobic

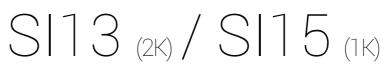
Self-cleaning stays cleaner longer

Anti-scratch

Visibility safety

Protects your **|†**\$ investment

> Impact Resistance 1kg / 80cm



Paint Coolest White for egg-shell surfaces

Auticle Nu
Article Nr.
Consumption
Reachable area
Hardness
Used for
Application field

:SI132000 2L/3.300gr SI152000 2L/3.000gr : 2 layers +/- 235gr/m² - 143ml/m² 90 micron = 14m² : 1 layer +/- 118gr/m² - 72ml/m² 45 micron = $28m^2$:H7/H6

: Concrete, steel, wood, acrylic, gypsum

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+

antislip - high inpact resistant Product ID : SI412000 2L / 2.000gr : 3 layers +/- 222gr/m² - 222ml/m² 90 micron = 9m² Consumption $\cdot 2 \log r + - 111 a r/m^2 - 111 m l/m^2 - 60 m cron = 18 m^2$ Reachable area

Reachable area	$2 \text{ layers } +/- 11 \text{ lgr/m}^2 - 111 \text{ ml/m}^2 - 60 \text{ micron} = 18 \text{ m}^2$
	: 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.
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

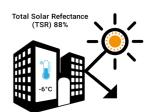
Expected life duration up to 30 years+

NANO-CERAMIC®



: Buildings, tunnels, walls, ceilings, exteriors, interiors

How to use: Page 10





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

Color mixing has never been so easy!!!

X- SMART is the modular version of the acclaimed dispenser series, extremely costeffective and easy to operate, with a low maintenance

This color mixer has a robust and tubeless design, built with a patented pump technology (to reduce waste) and identical features, making it a highly advanced dispenser, ideally suited to reduced capacity.



Prisma-RT is a cloud-based innovative mobile color application compatible with the X-SMART dispenser. It brings the best of wireless technology without the associated investment costs in hardware.

Customers do not have to provide computers and other accessories or set up servers, eliminating the need for complicated and time-consuming installation and configuration.

This smart Prisma-RT device helps to fix prices and taxes and can print labels via Wi-Fi.





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Stabilizer plates

X-SMART

16 High Grade Coloring chemicals





Titanium White Masstone Tint 844-0061 1.05gal Quinacridone Red Masstone Tint 844-0451 32oz





Trans Red Oxide Masstone Tint 844-1054 **32oz**

Red Oxide Masstone Tint 844-1063 **32oz**





Yellow Oxide Masstone Tint 844-1863 **32oz**

Lead Free Med Yellow Masstone Tint 844-2555 **32oz**



PHTHALO Green

844-5558 **32oz**

Masstone

Tint



Quinacridone Violet Masstone Tint 844-9451 **32oz**



Scarlet Red

Masstone Tint 844-0526 **32oz**



Burnt Umber

Masstone Tint 844-1352 **32oz**



Yelllow

Masstone
Tint
844-2826





Lamp Black Masstone Tint 844-9955 **32oz**





Lead Free Orange Masstone Tint 844-0982 **32oz**



Trans Yellow Oxide

Masstone	
Tint	
844-1852	32oz



Organic Yellow Masstone Tint 844-2852 **32oz**



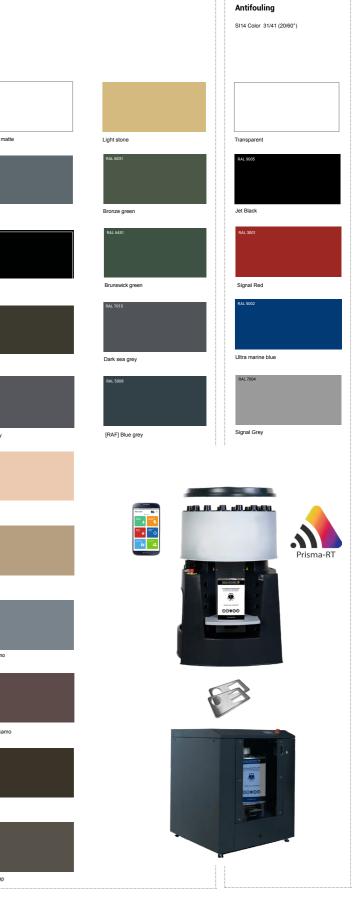
PHTHALO BLUE Masstone Tint 844-7262 **32oz**

Color card

Other colors need minimal 100kg

Sintersection Sintersecti	Residential				Wood	Industrial	Marine		Military
Anderson Strategy Window Window	SI13 White Egg-Shell (Flat Fini	nish) 15/25 (20/60°)	SI41 Textured White Semi Gloss 41/69 (20/60°)		SI11 Transparent Gloss 51/78 (20/60°)	SI11 Transparent Gloss 51/78 (20/60°)	SI12 Transparent Matte 11/21 (20/60°)		
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NANO-CERAMIC®





Primer Epoxy Polyamide heavy duty - anti-corrosion

Article Nr.	: SIX11250 42oz / 3.2 lbs SIX15000 1.32gal / 12.8 lbs		
Consumption	: 2 layers +/- 0.53 lbs/ft ² - 0.7oz/ft ² 80 micron = 50ft ²		
Reachable area	:1 layer +/- 0.26 lbs/ft ² - 0.4oz/ft ² 40 micron = 100ft ²		
Hardness	: H5		
Colors	: White, Grey or RAL (RAL Minimum Order 250pcs 1.32gal)		
Used on	: Concrete, Steel, Aluminium, Fiberglass and other organic		
	surfaces		
Application area	: Buildings, marine, airports, offshore structures, bridges		

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 85°F, 1 hours 140F°.



Primer Surfacer Acrylic Alkyd smooth - surface modifier

Article Nr.	: SIX21250 42oz / 3.2 lbs SIX25000 1.32gal / 12.8 lbs		
Consumption	: 2 layers +/- 0.44 lbs/ft ² - 0.7oz/ft ² 60 micron = $60ft^2$		
Reachable area	:1 layer +/- 0.22 lbs/ft ² - 0.4oz/ft ² 30 micron = 120ft ²		
Hardness	: H3		
Colors	: White or Grey		
Used on	: Steel, aluminium, wood, fiberglass, and old paint systems.		
Application area	: Buildings, marine, airports, bridges		

SIX2 High-quality 2K surfacer (two-component basecoat) for auto-refinish, marine, and industrial coating applications where a smooth surface is required. The primer has excellent adhesion to all organic substrates and to all of our ceramic topcoats. The primer can be applied at a relative humidity of 30-80% and can be painted over within 4 hours 85°F, 1 hours 140F°.





Excellent adhesion



Heavy Duty Primer - Smooth Surfacer



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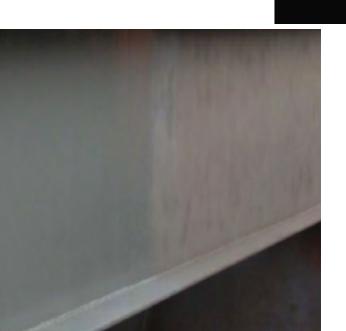
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Fast Repaintable

Excellent adhesion

VOC Free







Primer PU Wood Filler surface modifier - absorbtion reducer

Article Nr.	: SIX31500 51oz / 3.3 lbs			
Consumption	2 layers +/- 0.40 lbs/ft ² - 0.60	z/ft ² 60 micron = 80ft ²		
Reachable area	1 layer +/- 0.20 lbs/ft ² - 0.30	z/ft ² 30 micron = 120ft ²		
Hardness	: H4			
Used on	: Steel, Aluminium and other organic surfaces			
Application area	: Buildings, marine, airports, offshore structures, bridges			

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%.





Absorption Reducer - All Surface Modifier



SIX4 1-Component (1K)

Primer Acrylic Waterbased all surfaces modifier

Article Nr.	:SIX41000 32oz / 2.65 lbs SIX44000 1gal / 10.6 lbs
onsumption	: 2 layers +/- 0.53 lbs/ft ² - 0.7oz/ft ² 80 micron = 50ft ²
Reachable area	: 1 layer +/- 0.26 lbs/ft ² - 0.4oz/ft ² 40 micron = $100ft^2$
Hardness	: H3
Colors	: White, Grey or RAL (RAL Minimum Order 250pcs 1gal)
Used on	: Concrete, wood, drywalls and old waterbased paints
Application area	: Buildings, walls and ceilings indoor or outdoor

SIX4 Acrylic Water-Based Primer is a premium, all-purpose primer-sealer with excellent adhesion, stain-blocking, and hiding power. Ideal for both interior and exterior surfaces, it bonds to glossy surfaces without sanding, effectively blocks stains, and provides a smooth foundation for any solvent-based or water-based topcoat



Fast Repaintable

Excellent adhesion

VOC Free

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THE NEW GENERATION COATINGS

NANO-CERAMIC®

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.

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





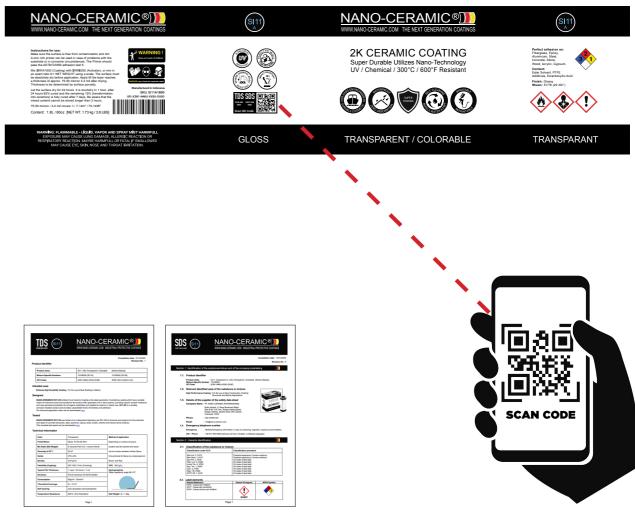
Fast Repaintable

Excellent adhesion





Scan QR Code for TDS and SDS



NANO-CERAMIC®

THE NEW GENERATION COATINGS

NANO-CERAMIC®

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:



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 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 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.





for all types of our ceramic paint & coating

Article Nr.

: SOLV0400 400ml / 345gr SOLV2000 2L / 1760gr SOLV5000 5L / 4400gr

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.

Paint Suit

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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

