

NANO-CERAMIC®

WWW.NANO-CERAMIC.COM THE NEXT GENERATION COATINGS



Marine Permanent Coating Systems

What is NANO-CERAMIC® Permanent Coating System?

NANO-CERAMIC permanent coating is the latest generation of protective coating, which transforms paint into a hard ceramic, providing superior scratch resistance and permanent protection for all exterior and interior surfaces.

NANO-CERAMIC permanent coating is resistant up to 600°F and more than 6 times stronger than traditional acrylic-based paint finishes, effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

Low Maintenance for decades to come!

Our NANO-CERAMIC permanent coating is (non-PFAS) rigorously tested by an independent laboratory according to the European standard for outdoor paints (EN 1504-2). Please find the test report on our website.

Can NANO-CERAMIC Permanent Coating be applied on any surface?

The NANO-CERAMIC permanent coating can be applied directly or indirectly on all types of interior and/or exterior surfaces (porous and non-porous), such as steel, aluminum, stainless steel, gelcoat, composites (GRP/FRP), wood, and previously coated marine surfaces.



Is NANO-CERAMIC Permanent Coating self-cleaning?

NANO-CERAMIC permanent coating creates a permanently hydrophobic, self-cleaning surface with a high water contact angle, significantly reducing surface contamination and cleaning frequency, as water and dirt cannot penetrate the ceramic matrix.

The coating exhibits excellent resistance to water vapour transmission and water absorption, ensuring long-term protection of the substrate.

Can our hydrophobic coatings reduce acceleration time, increase speed, and lower fuel consumption?

Yes, the superhydrophobic surface provides a significant drag-reduction effect, with a maximum drag reduction rate of up to 23.4%.

In a 2023 IPTEK ITS analysis on drag reduction, it was found that acceleration increased due to reduced drag on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to a non-coated surface and a 27% improvement compared to a conventional antifouling-coated surface.

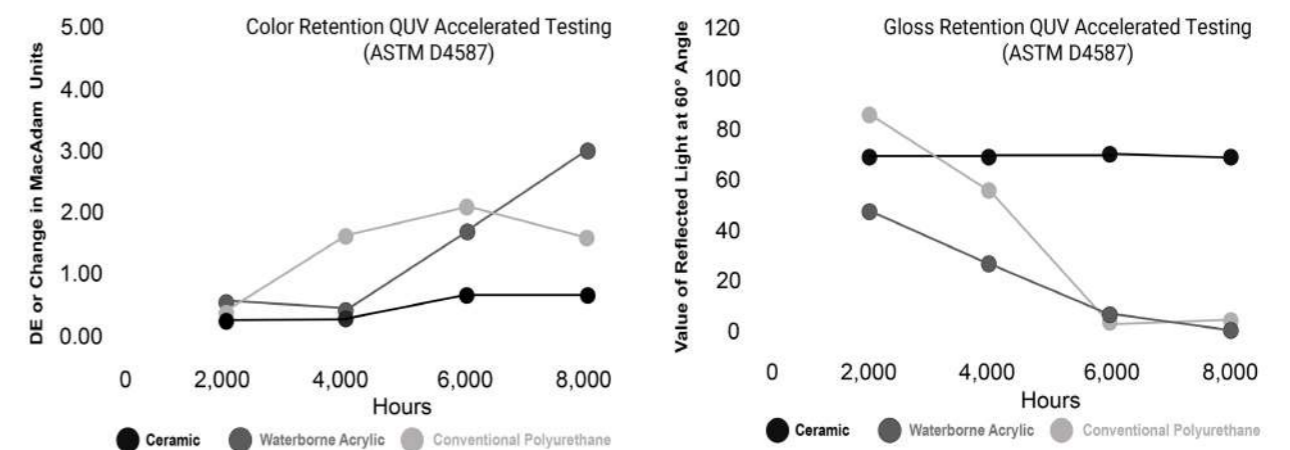
These findings were published in the International Journal of Marine Engineering Innovation and Research. Click [here](#) for the IPTEK analyses.

Other paints are simply not suitable for long-term harsh outdoor environments.

Continuous exposure to saltwater, UV radiation, and mechanical stress can lead to coating degradation, corrosion, and surface failure.

To prevent issues such as corrosion, coating breakdown, and weathering over the coming decades, our Permanent Coating System provides a durable, long-term solution designed to maintain the integrity of marine structures and preserve the value of your assets.

Superior in Color & Gloss Retention.



A special selection of high-grade tinting chemicals, computer-dispersed in a superior ceramic resin.

Conventional marine gelcoats are typically based on epoxy or polyurethane resins, where the quality of the resin and pigments is the most important factor in determining overall performance and strength.

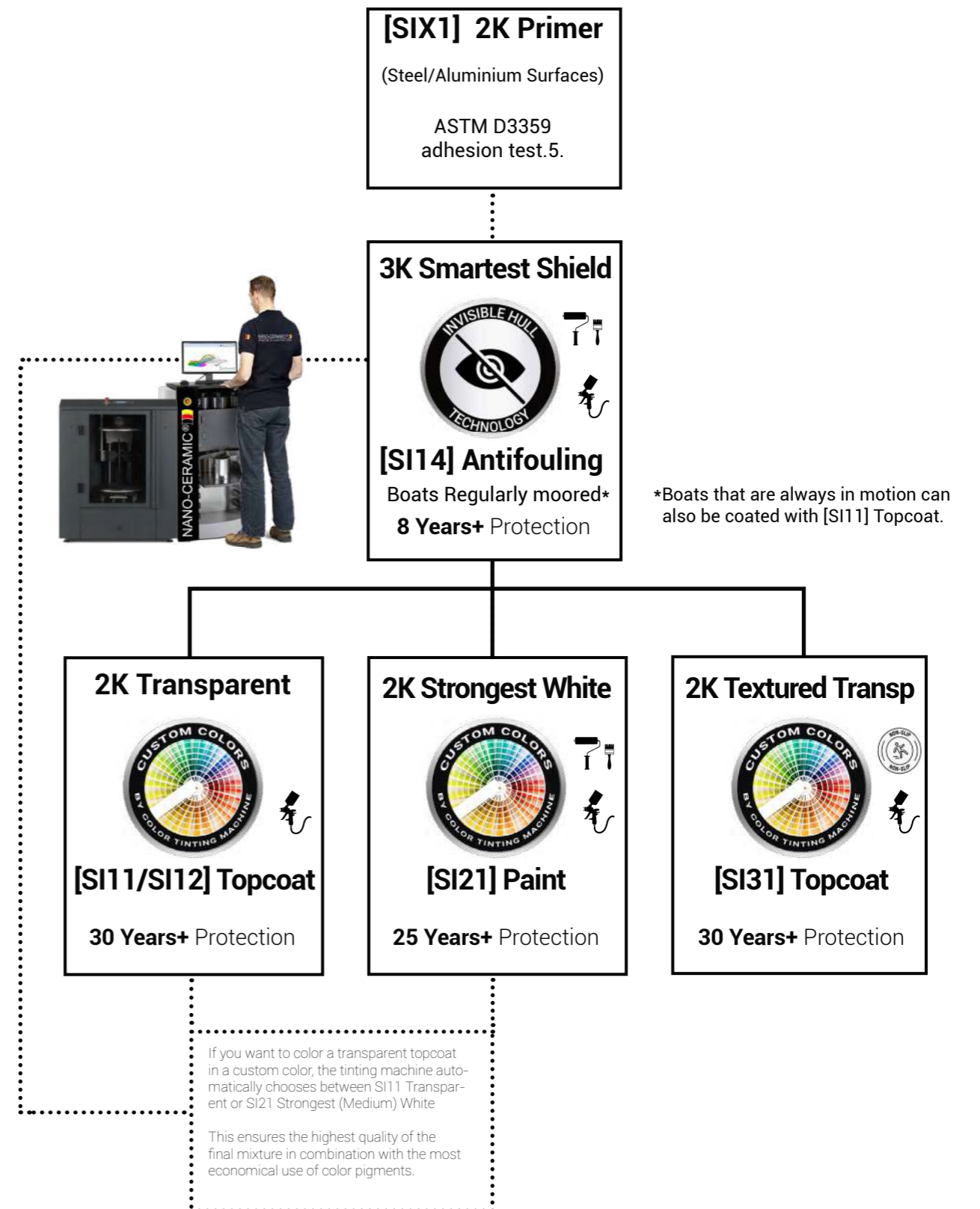
Most have a lifespan of up to 15 years, with hardness, colour and gloss retention (UV fading), as well as manual mixing and inconsistent quality, being among the most common challenges in maintaining surfaces at an aesthetically acceptable level.

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	140°F	196°F	350°F	505°F	600°F
Thermal Shock Resistance	Good	Good	Poor	Good	Excellent
Carbon Dioxide Permeability	Poor	Poor	Good	Poor	Excellent
Water vapour permeability	Average	Average	Good	Average	Excellent
Water Absorption Rate	5-15%	1%	2%	3%	0%
Aging at 158°F	Poor	Poor	Good	Average	Excellent
Adhesion Strength (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+

Ceramic Coating & Paint System.





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SI11

2-Component (2K)

Topcoat Transparent

for glossy surfaces

Product ID	: SI112000 67 oz / 4.2 lbs
Consumption	: 3 layers \pm 0.06 lbs/ft ² - 0.96 oz/ ft ² = 3 mil/ 70 ft ²
Reachable area	: 2 layers \pm 0.04 lbs/ft ² - 0.64 oz/ ft ² = 2 mil/140 ft ² : 1 layer \pm 0.02 lbs/ft ² - 0.32 oz/ ft ² = 1 mil/210 ft ²
Hardness	: H9
Used for	: Fiberglass, steel, aluminium, plastics, wood
Application field	: Marine, exteriors, interiors

SI11 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 permanently 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 600°F.

Expected life duration: up to 30+ years



How to use: Page 11+ 32



TEST
REPORT
SCAN QR
CODE



SI12

2-Component (2K)

Topcoat Transparent

for matte surfaces

Product ID	: SI112000 67 oz / 4.4 lbs
Consumption	: 3 layers \pm 0.06 lbs/ft ² - 0.96 oz/ ft ² = 3 mil/ 70 ft ²
Reachable area	: 2 layers \pm 0.04 lbs/ft ² - 0.64 oz/ ft ² = 2 mil/140 ft ² : 1 layer \pm 0.02 lbs/ft ² - 0.32 oz/ ft ² = 1 mil/210 ft ²
Hardness	: H9
Used for	: Fiberglass, steel, aluminium, plastics, wood
Application field	: Marine, exteriors, interiors

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 permanently 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 600°F.

Expected life duration: up to 30+ years



How to use: Page 11+ 32





SI21 2-Component (2K)

Paint The Strongest White for glossy surfaces

- Product ID** : SI212000 67 oz / 5.3 lbs
- Consumption** : 3 layers ± 0.044 lbs/ft² - 0.56 oz/ ft² = 3 mil/120 ft²
- Reachable area** : 2 layers ± 0.030 lbs/ft² - 0.37 oz/ ft² = 2 mil/160 ft²
: 1 layer ± 0.014 lbs/ft² - 0.19 oz/ ft² = 1 mil/240 ft²
- Hardness** : H8
- Used on** : Gelcoat, fiberglass, steel, aluminium, plastics, wood
- Application field** : Marine Exteriors

SI21 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 does not absorb any water
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 600°F

Expected Life Duration up to 25+ year



How to use: Page 11+ 32

- Easy to apply**
Repaintable
- Cut maintenance costs**
- Anti-water spot**
Anti-corrosion
- Permanently hydrophobic**
- Self-cleaning**
stays cleaner longer
- Anti-scratch**
- Impact resistance**
2 lbs -2.6 ft
- Protects your investment**



SI14 3-Component (3K)

The Smartest White black/red/blue/grey/transparent

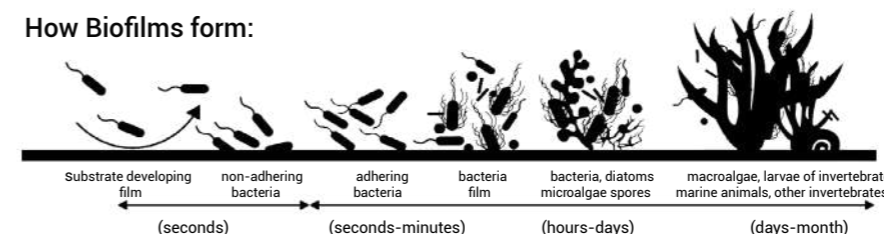
- Product ID** : SI141000-BK-RD-BL-GR 32 oz / 2.4 lbs
: SI144000-BK-RD-BL-GR 1 gal / 9.5 lbs
- Consumption** : 2 layers ± 0.08 lbs/ft²-1.30 oz/ft² = 8 mil/140 ft²
- Reachable area** : 1 layer ± 0.04 lbs/ft²-0.65 oz/ft² = 4 mil/280 ft²
- Hardness** : H7
- Used for** : Gelcoat, fiberglass, steel, aluminium, plastics, wood
- Application field** : Marine Antifouling

SI14 is a revolutionary high-tech ceramic antifouling paint with a self-polishing amphiphilic biofilm that masks the boat hull surface from marine organisms.

This world-leading antifouling stores more and releases less non-bio-cidal agents, resulting in the longest maintenance interval of 8+ years currently available.

Ideal for vessels with long idle periods—such as offshore supply vessels, standby vessels, drilling platforms, leisure yachts, and docked pleasure boats. Biocidal action reduces fouling and cleaning requirements.

How Biofilms form:



How to use: Page 11+ 32

- Easy to apply**
Repaintable
- Amphiphilic**
Invisible hull technology
- Cut maintenance costs**
- Organic copper and tin**
Non-biocidal
- Super sleek surface**
Algae release <6 knots
- Self-cleaning**
stays cleaner longer
- Reduce fuel consumption**
- Impact resistance**
2 lbs -2.6 ft
- Thermal shock-resistant**

SI31

2-Component (2K)

Textured Transparent Semi Gloss antislip - high impact resistant

Product ID	: SI312000 67 oz / 4.6 lbs
Consumption	: 3 layers \pm 0.050 lbs/ft ² - 0.76 oz/ ft ² = 3 mil/ 90 ft ²
Reachable area	: 2 layers \pm 0.033 lbs/ft ² - 0.51 oz/ ft ² = 2 mil/180 ft ² : 1 layer \pm 0.017 lbs/ft ² - 0.25 oz/ ft ² = 1 mil/270 ft 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, insulating, and heat-rejecting

Expected life duration: up to 25+ years



How to use: Page 11+ 32



Mixing Instructions using additives

2K System (A + B):

Mix ratio: 9:1 by net weight (Component A : B) [Example: A = 90 g and B = 10 g]
For full kit application, pour all of Component B into Component A and mix thoroughly.

3K System (A + C + B):

Mix ratio:

Step 1: A : C = 7:2 by net weight [Example: A = 70 g and C = 20 g]

Step 2: Add B = 7:1 based on Component A [Example: B = 10 g]

For full kit application, first pour all of Component C into Component A and mix thoroughly, then add all of Component B into the (A + C) mixture and mix thoroughly.

Mix Component C into Component A and stir thoroughly until homogeneous.

If required, add color dye (max. 10%) into Component A and mix thoroughly.

Then add Component B into the (A + C) mixture and mix thoroughly.

Can be used as transparent or with added colorant.

General Instructions (Applicable to 2K & 3K):

Measurement

For partial quantities or when adding color dye, always measure using a calibrated scale. Do not mix by volume.

Adding Color Dye

Add color dye (max. 8%) to Component A and mix thoroughly before adding Component B (and before adding C for 3K). Component B must be calculated based on the net weight of Component A prior to adding any additive. Do NOT increase Component B to compensate for added dye.

Mixing ⚠

Mix thoroughly for 2 minutes using a mixing stick.
Scrape the sides and bottom during mixing.

Adding Solvent

If necessary, a maximum of 5% SOLV high-purity, compatible solvent may be added to adjust application viscosity. Excess addition may reduce film build, delay curing, and negatively affect final coating performance.

Adding Retarder

The use of retarder solvent is not recommended.

If required under high-temperature conditions, a maximum of 2–3% approved retarder may be used. Excess addition may delay curing and reduce final coating performance.

Adding Accelerator

The use of accelerators is not recommended.

Addition may significantly reduce pot life, negatively affect application properties, and compromise final coating performance. If the use of accelerator is unavoidable, use ACCL Ceramic Accelerator at a maximum of: 0.5% of total mixture (A+B or A+B+C) For UVA Topcoat: max. 0.25%

Add immediately before application and mix thoroughly. Use only in small batches and apply without delay.

Important: Always test a small area to confirm that the product color and texture are the desired finish. ⚠

Color mixing has never been so easy!

X- SMART is the modular version of the acclaimed dispenser series, extremely cost-effective 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.



X-SMART
Stabilizer plates



16 High Grade Coloring chemicals



Titanium White
Masstone
Tint
844-0061 1.05 gal



Quinacridone Red
Masstone
Tint
844-0451 32 oz



Scarlet Red
Masstone
Tint
844-0526 32 oz



Lead Free Orange
Masstone
Tint
844-0982 32 oz



Trans Red Oxide
Masstone
Tint
844-1054 32 oz



Red Oxide
Masstone
Tint
844-1063 32 oz



Burnt Umber
Masstone
Tint
844-1352 32 oz



Trans Yellow Oxide
Masstone
Tint
844-1852 32 oz



Yellow Oxide
Masstone
Tint
844-1863 32 oz



Lead Free Med Yellow
Masstone
Tint
844-2555 32 oz



Yellow
Masstone
Tint
844-2826 32 oz



Organic Yellow
Masstone
Tint
844-2852 32 oz



PHTHALO Green
Masstone
Tint
844-5558 32 oz



Quinacridone Violet
Masstone
Tint
844-9451 32 oz



Lamp Black
Masstone
Tint
844-9955 32 oz



PHTHALO BLUE
Masstone
Tint
844-7262 32 oz

Color card

Other colors need minimal 220 lbs

Residential	Wood	Industrial	Marine	Military	Antifouling
<p>SI13 White Egg-Shell (Flat Finish) 15/25 (20/60°)</p> <p>SI15 White Egg Shell (Flat Finish) 18/28 (20/60°)</p> <p>SI21 White Gloss 49/77 (20/60°)</p> <p>SI22 White Satin 33/59 (20/60°)</p> <p>SI41 Textured White Semi Gloss 41/69 (20/60°)</p> <p>SI42 Textured White Matte 11/21 (20/60°)</p>	<p>SI11 Transparent Gloss 51/78 (20/60°)</p> <p>SI12 Transparent Matte 11/21 (20/60°)</p>	<p>SI11 Transparent Gloss 51/78 (20/60°)</p> <p>SI21 White Gloss 49/77 (20/60°)</p> <p>SI22 White Satin 33/59 (20/60°)</p>	<p>SI12 Transparent Matte 11/21 (20/60°)</p> <p>SI41 Textured White Semi Gloss 41/69 (20/60°)</p> <p>SI42 Textured White Matte 11/21 (20/60°)</p>	<p>SI31 Textured Transparent Semi Gloss 41/69 (20/60°)</p> <p>SI33 Textured Black Semi Gloss 41/69 (20/60°)</p>	<p>SI14 Color 3141 (20/60°)</p>
<p>Original</p>	<p>SI11 Transparent</p> <p>SI11 Light</p> <p>SI11 Nut</p> <p>SI11 Colonial</p>	<p>Transparent</p>	<p>Original</p>	<p>Original</p>	<p>Original</p>
<p>RAL 9018</p> <p>RAL 9001</p> <p>RAL 9002</p> <p>RAL 9003</p> <p>RAL 9004</p> <p>RAL 9005</p> <p>RAL 9006</p> <p>RAL 9007</p> <p>RAL 9010</p> <p>RAL 9011</p> <p>RAL 9016</p>	<p>RAL 9018</p> <p>RAL 9022</p> <p>RAL 9023</p> <p>RAL 1000</p> <p>RAL 1001</p> <p>RAL 1002</p> <p>RAL 1011</p> <p>RAL 1013</p> <p>RAL 1014</p> <p>RAL 1015</p> <p>RAL 9017</p>	<p>RAL 3015</p> <p>RAL 6007</p> <p>RAL 4009</p> <p>RAL 6027</p> <p>RAL 7000</p> <p>RAL 1036</p> <p>RAL 8029</p> <p>RAL 4012</p> <p>RAL 6025</p> <p>RAL 6036</p> <p>RAL 8016</p>	<p>RAL 1026</p> <p>RAL 3020</p> <p>RAL 9005</p> <p>RAL 1004</p> <p>RAL 6002</p> <p>RAL 7035</p> <p>RAL 7011</p> <p>RAL 7003</p> <p>RAL 8002</p> <p>RAL 8025</p>	<p>RAL 3000</p> <p>RAL 3004</p> <p>RAL 7036</p> <p>RAL 9001</p> <p>RAL 9023</p> <p>RAL 1023</p> <p>RAL 7001</p> <p>RAL 1015</p> <p>RAL 9016</p> <p>RAL 9001</p> <p>RAL 1001</p> <p>RAL 1020</p>	<p>RAL 7031</p> <p>RAL 6031</p> <p>RAL 4451</p> <p>RAL 9005</p> <p>RAL 6005</p> <p>RAL 7016</p> <p>RAL 5008</p> <p>RAL 7024</p> <p>RAL 1015</p> <p>RAL 9000</p> <p>RAL 9012</p> <p>RAL 9002</p> <p>RAL 9013</p> <p>RAL 5005</p>
<p>Cool white</p> <p>Cream white</p> <p>Grey white</p> <p>Signal white</p> <p>Signal black</p> <p>Jet black</p> <p>White aluminium</p> <p>Grey aluminium</p> <p>Pure white</p> <p>Graphite black</p> <p>Traffic white</p>	<p>Papyrus white</p> <p>Pearl light grey</p> <p>Pearl dark grey</p> <p>Green beige</p> <p>Beige</p> <p>Sand yellow</p> <p>Brownbeige</p> <p>Pearl white</p> <p>Ivory</p> <p>Light Ivory</p> <p>Traffic black</p>	<p>Light pink</p> <p>Pastel blue</p> <p>Pastel violet</p> <p>Light green</p> <p>Squirrel grey</p> <p>Pearl gold</p> <p>Pearl copper</p> <p>Pearl blackberry</p> <p>Pearl gentian blue</p> <p>Pearl opal green</p> <p>Mahogany braun</p>	<p>Lumious yellow</p> <p>Traffic red</p> <p>Jet black</p> <p>Golden yellow [Cat]</p> <p>Leaf green [J.D Deere]</p> <p>Light grey</p> <p>Dark grey</p> <p>Silver grey</p> <p>Signal brown</p> <p>Pale brown</p>	<p>Fire red</p> <p>Burgundy</p> <p>Platinum</p> <p>Jet Black</p> <p>Turquoise bleu</p> <p>Light green</p> <p>Violet blue</p> <p>Ultramarine blue</p> <p>Sapphire blue</p> <p>Signal blue</p>	<p>Light stone</p> <p>Bronze green</p> <p>Brunswick green</p> <p>Dark sea grey</p> <p>[RAF] Blue grey</p> <p>Desert sand</p> <p>Camo beige</p> <p>Dark grey camo</p> <p>Dark brown camo</p> <p>Olive drap</p> <p>Very dark drap</p>

What is NANO-CERAMIC® UVA Topcoat?

NANO-CERAMIC UVA Topcoat is a revolutionary low-VOC, non-PFAS, self-leveling protective coating system that forms an ultra-hard, glass-like hydrophobic barrier—ideal for high-performance marine environments.

Specifically engineered for extreme durability and a sleek, high-gloss finish, UVA Topcoat delivers exceptional resistance to saltwater, intense UV exposure, biofouling, and harsh marine chemicals like hydrofluoric acid (HF), hydrochloric acid, and citric acid—all while remaining completely safe and compliant for onboard use (food-contact safe).

Powered by advanced nanotechnology, UVA Topcoat extends the lifespan of marine surfaces by protecting polyester, epoxy, polyurethane, and acrylic resins, as well as steel, aluminum, composites, and wood, from corrosion, surface breakdown, and environmental wear, making it an exceptionally versatile solution for virtually any surface.

Why UVA Topcoat is a Game-Changer?

For decades, protective coatings like epoxy, polyurethane (PU), and acrylic have been the industry standard. However, they all share a critical weakness—UV degradation. Prolonged exposure to sunlight causes these coatings to yellow, crack, and deteriorate, leading to costly maintenance and premature failures.

Where can UVA Topcoat be applied in Marine use?

UVA Topcoat is highly versatile and suitable for a wide range of marine applications:

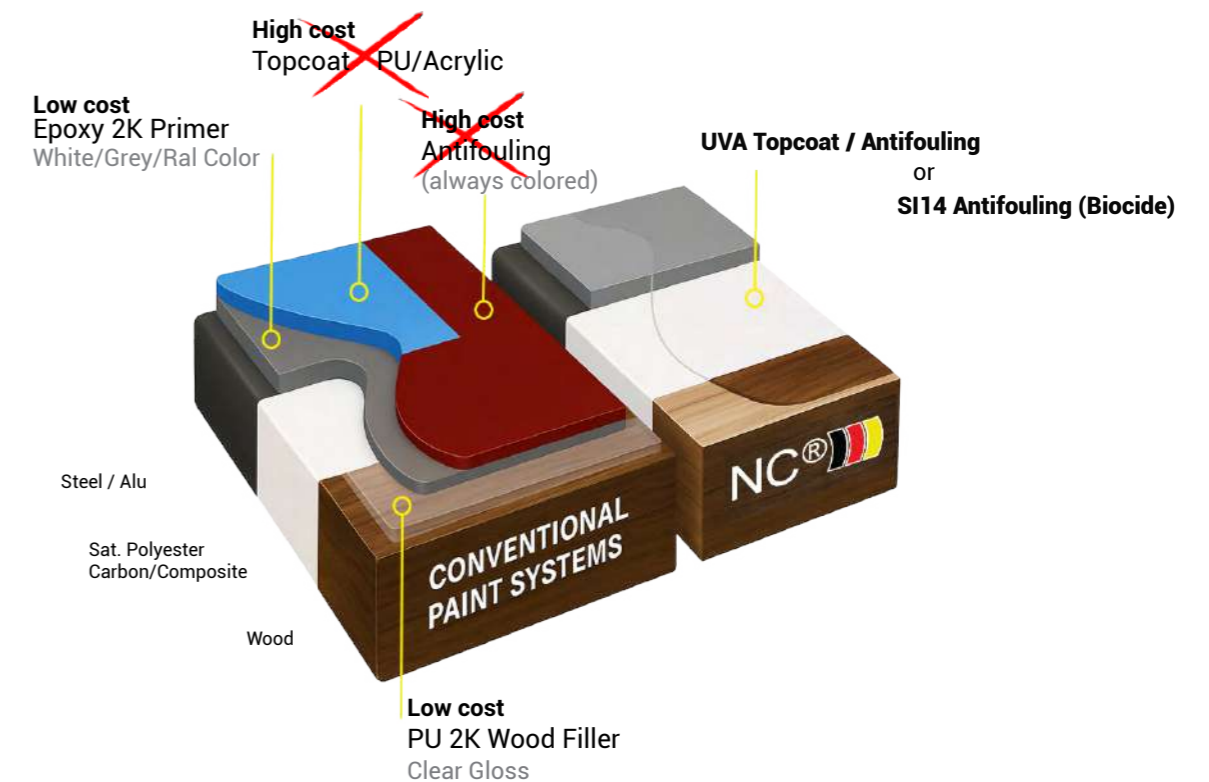
- Yachts & Boats – Hulls, decks, topsides, and superstructures
- Speedboats – UV protection and ultra-slick finish for high-performance watercraft
- Marine Infrastructure – Docks, piers, pontoons, and submerged structures
- Ship Interiors – Tables, countertops, cabins, walls, and decorative panels
- Commercial Vessels – Outer hulls, ballast tanks, walkways, and engine rooms
- Antifouling Protection – Ideal for vessels in constant motion or those stored on land

Compatible with both new builds and retrofits, UVA Topcoat adapts to various marine substrates and operating conditions with ease.

Can hydrophobic coatings boost speed and save fuel?

Yes—our superhydrophobic sleek surface reduces drag by up to 23.4%, leading to 31% faster acceleration compared to uncoated surfaces and 27% faster than conventional antifouling coatings (Source: IPTEK ITS, 2023).

How it Works



Superior Performance at the Lowest Cost.

UVA Topcoat isn't just another coating—it's a next-generation solution that replaces complex and expensive multi-layer systems with a single, high-performance layer.

By applying directly over low-cost primers, UVA Topcoat eliminates the need for expensive finishing coats. Its smart chemistry and simplified process make traditional topcoat systems outdated by comparison.

Whether for industrial, marine, infrastructure, or decorative use, UVA Topcoat simplifies your process and multiplies your value—proving that true performance doesn't have to come at a high price.

Freedom in Protection Years

Long-Lasting Protection, Layer by Layer

A single 6 µm (micron) layer applied using HVLP spray technology can provide up to 8 years of protection. Need more durability? Just add more layers—it's that simple.

Apply wet-on-wet: once the first coat flashes off (dry to the touch but still tacky), you can immediately apply the next. This method prevents trapped gases and creates a seamless, chemical-resistant film with hydrophobic properties—making surfaces easier to clean and maintain.

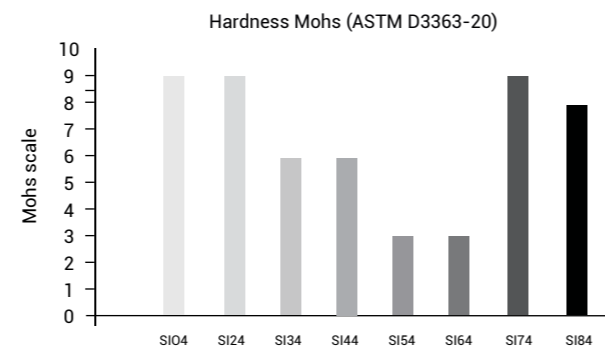
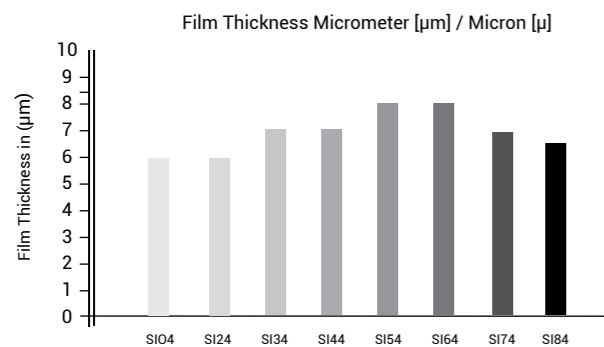
Coverage & Application Efficiency

UVA Topcoat is engineered for maximum efficiency with minimal material use—delivering high-performance protection at a fraction of the volume required by traditional coatings.

Recommended usage is approximately ±0.025 lbs/ft² per layer (by wipe or spray), resulting in a film thickness of around 6 microns, with one liter covering up to 800 ft².

Color Tinting Option for Marine Applications

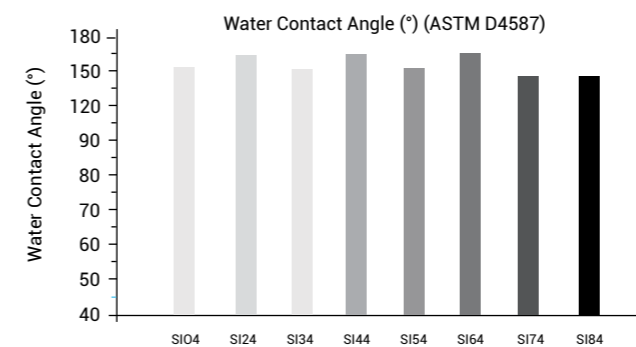
For customized aesthetics, UVA Topcoat can be tinted using our colorants on page 22-23. These high-performance, solvent-free pigments provide long-lasting color stability and UV resistance—perfect for marine environments where both protection and appearance matter. Ideal for yachts, decks, interiors, or any visible surface requiring a durable, colored finish without compromising the coating's hydrophobic and chemical-resistant properties.



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	UVA Topc 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	140°F	196°F	350°F	505°F	550°F
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 Strength 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	8/16/24





APPLY VIDEO
SCAN
QR CODE



SIO4

1-Component (2K)

Topcoat Transparent for glossy surfaces

Product ID	: SIO41LUVA 32 oz / 2.03 lbs SIO405UVA 16 oz / 1 lbs
Consumption	: 3 layers ± 0.075 lbs/ft ² - 0.12 oz/ft ² 18 micron = 200 ft ²
Reachable area	: 2 layers ± 0.050 lbs/ft ² - 0.08 oz/ft ² 12 micron = 400 ft ² : 1 layer ± 0.025 lbs/ft ² - 0.04 oz/ft ² 6 micron = 800 ft ²
Hardness/Cupping	: H9 / Flexibility ISO 1520 >21mm
Used for	: Fiberglass, steel, aluminium, plastics, wood
Application field	: Marine, exteriors, antifouling interiors

SIO4 is a high-performance single-component coating and paint system with extremely high hardness, designed for hard, non-flexible surfaces. The coating forms a dense and highly durable molecular bonding matrix (ceramic transformation), providing permanent surface protection.

Three simple steps: Clean, Dry, and Apply.

- Effectively repels water, dirt, dust, and pollutants.
- Features permanent hydrophobic properties with exceptional durability.
- Helps restore degraded surfaces and reduces cleaning frequency.
- Resistant to a wide range of chemicals and UV radiation.
- Provides superior protection against corrosion and environmental pollution.
- Offers heat resistance up to 300°C.

Durability: up to 8, 16, or 24 years (depending on coating thickness).



How to use: Page 33



- Lower drag - higher speed
Reduce fuel consumption
- Easy to apply
Repaintable
- Cut maintenance costs
- Anti-water spot
Anti-corrosion
- Permanently
hydrophobic
- Self-cleaning
stays cleaner longer
- Anti-scratch
- Impact resistance
30'' - 2lbs
- Protects your
investment



TEST REPORT
SCAN QR
CODE



SI24

1-Component (1K)

Topcoat Transparent for matte surfaces

Product ID	: SI241LUVA 32 oz / 2.13 lbs SI2405UVA 16oz / 1.05 lbs
Consumption	: 3 layers ± 0.075lbs/ft ² - 0.12oz/ft ² 18 micron = 200ft ²
Reachable area	: 2 layers ± 0.050lbs/ft ² - 0.08oz/ft ² 12 micron = 400ft ² : 1 layer ± 0.025lbs/ft ² - 0.04oz/ft ² 6 micron = 800ft ²
Hardness/Cupping	: H9 / Flexibility ISO 1520 >21mm
Used for	: Fiberglass, steel, aluminium, plastics, wood
Application field	: Marine, exteriors, interiors

SI24 is a high-performance single-component coating and paint system with extremely high hardness, designed for hard, non-flexible surfaces. The coating forms a dense and highly durable molecular bonding matrix (ceramic transformation), providing permanent surface protection.

Three simple steps: Clean, Dry, and Apply.

- Effectively repels water, dirt, dust, and pollutants.
- Features permanent hydrophobic properties with exceptional durability.
- Helps restore degraded surfaces and reduces cleaning frequency.
- Resistant to a wide range of chemicals and UV radiation.
- Provides superior protection against corrosion and environmental pollution.
- Offers heat resistance up to 300°C.

Durability: up to 8, 16, or 24 years (depending on coating thickness).



How to use: Page 33



- Easy to apply
Repaintable
- Cut maintenance costs
- Anti-water spot
Anti-corrosion
- Permanently
hydrophobic
- Self-cleaning
stays cleaner longer
- Anti-scratch
- Impact resistance
30'' - 2 lbs
- Protects your
investment



APPLY VIDEO
SCAN
QR CODE



SI34

1-Component (2K)

Topcoat Transparent for glossy surfaces

Product ID : SI341LUVA 32 oz / 2.03 lbs SIO405UVA 16 oz / 1 lbs
Consumption : 3 layers ± 0.075 lbs/ft² - 0.12 oz/ft² 18 micron = 200 ft²
Reachable area : 2 layers ± 0.050 lbs/ft² - 0.08 oz/ft² 12 micron = 400 ft²
 : 1 layer ± 0.025 lbs/ft² - 0.04 oz/ft² 6 micron = 800 ft²
Hardness/Cupping : H9 / Flexibility ISO 1520 >21mm
Used for : Fiberglass, steel, aluminium, plastics, wood
Application field : Marine, exteriors, antifouling interiors

SI34 is a high-performance single-component coating and paint system with a balanced combination of hardness and flexibility, designed for a wide range of surfaces. The coating forms a dense and durable molecular bonding matrix (ceramic transformation), providing permanent surface protection.

- Effectively repels water, dirt, dust, and pollutants.
- Features permanent hydrophobic properties with high durability.
- Helps restore degraded surfaces and reduces cleaning frequency.
- Resistant to a wide range of chemicals and UV radiation.
- Provides excellent protection against corrosion and environmental pollution.
- Offers heat resistance up to 550°F.

Durability: up to 8, 16, or 24 years (depending on coating thickness).



How to use: Page 33



- Easy to apply**
Repaintable
- Cut maintenance costs**
- Anti-water spot**
Anti-corrosion
- Permanently hydrophobic**
- Self-cleaning**
stays cleaner longer
- Anti-scratch**
- Impact resistance**
30" - 2 lbs
- Protects your investment**



TEST REPORT
SCAN QR
CODE



SI44

1-Component (1K)

Topcoat Transparent for matte surfaces

Product ID : SI441LUVA 32 oz / 2.13 lbs SI2405UVA 16oz / 1.05 lbs
Consumption : 3 layers ± 0.075lbs/ft² - 0.12oz/ft² 18 micron = 200ft²
Reachable area : 2 layers ± 0.050lbs/ft² - 0.08oz/ft² 12 micron = 400ft²
 : 1 layer ± 0.025lbs/ft² - 0.04oz/ft² 6 micron = 800ft²
Hardness/Cupping : H9 / Flexibility ISO 1520 >21mm
Used for : Fiberglass, steel, aluminium, plastics, wood
Application field : Marine, exteriors, interiors

SI44 is a high-performance single-component coating and paint system with a balanced combination of hardness and flexibility, designed for a wide range of surfaces. The coating forms a dense and durable molecular bonding matrix (ceramic transformation), providing permanent surface protection.

- Effectively repels water, dirt, dust, and pollutants.
- Features permanent hydrophobic properties with high durability.
- Helps restore degraded surfaces and reduces cleaning frequency.
- Resistant to a wide range of chemicals and UV radiation.
- Provides excellent protection against corrosion and environmental pollution.
- Offers heat resistance up to 550°F.

Durability: up to 8, 16, or 24 years (depending on coating thickness).



How to use: Page 33



- Easy to apply**
Repaintable
- Cut maintenance costs**
- Anti-water spot**
Anti-corrosion
- Permanently hydrophobic**
- Self-cleaning**
stays cleaner longer
- Anti-scratch**
- Impact resistance**
30" - 2 lbs
- Protects your investment**

UVA Topcoat Colorants

Precision Color Control – From Super-Transparent Tints to Bold, Defined Shades

As a coating manufacturer, we use advanced colorant chip technology to produce fully prepared, ready-to-use colorants that integrate seamlessly into our coating systems.

The colorant chips themselves are selected, processed, and blended by us under controlled conditions, resulting in liquid colorants with precise concentration, high transparency, and excellent stability. Our customers receive a finished colorant product and do not need to handle or process chips in any way.

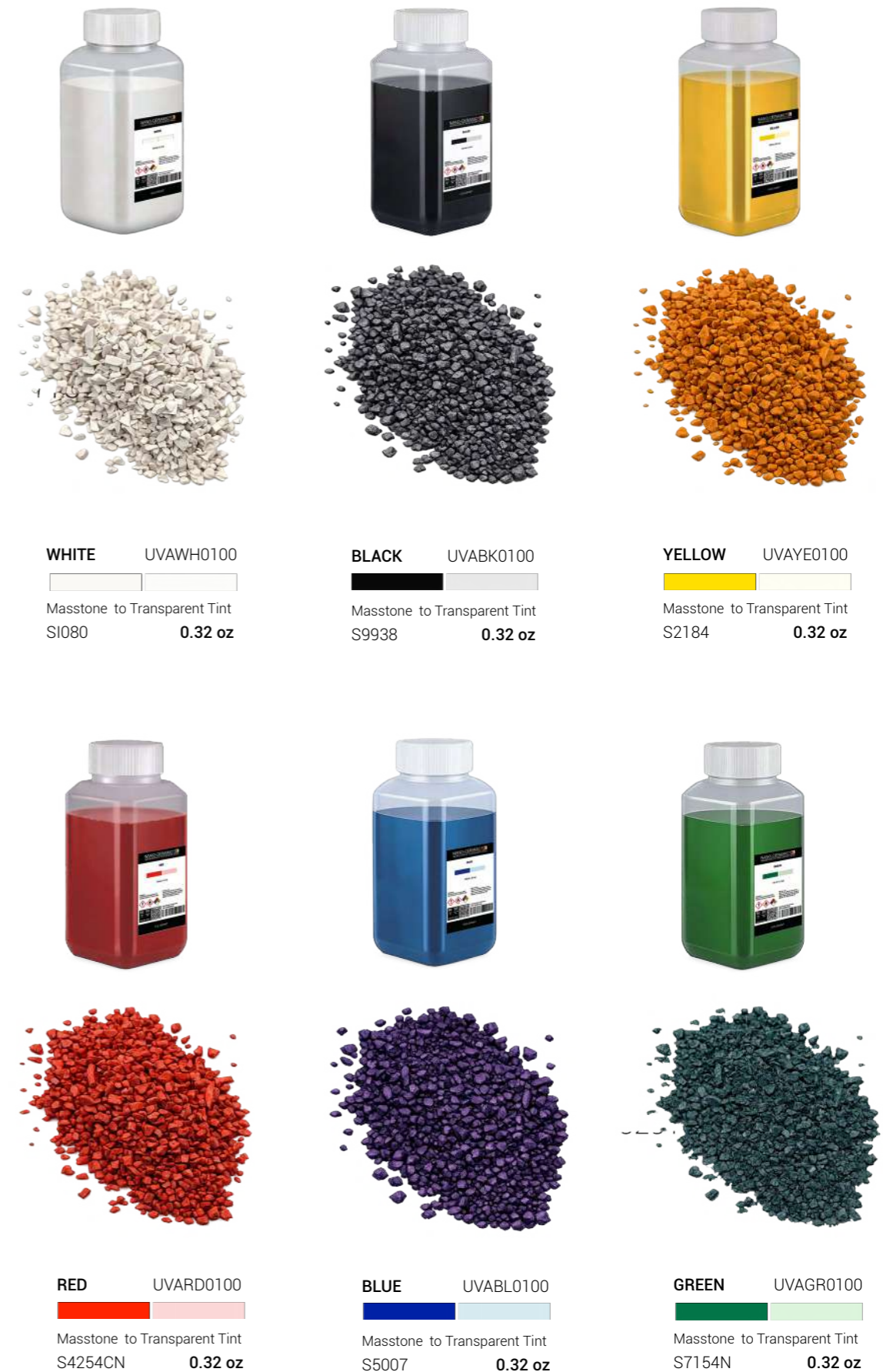
Because the colorants are supplied ready to use, incorporation into our coating systems is simple and straightforward. The required amount of colorant can be added directly to the coating and mixed using standard stirring or mechanical mixing.

The colorant disperses quickly and evenly, without streaking, cloudiness, or the need for special equipment. This makes color adjustment easy and reliable, even for small batches or on-site applications.

By controlling the entire process—from coating and colorant chip selection to finished colorant production—we ensure consistent color accuracy and repeatability from batch to batch.

The colorants are specifically engineered to remain fully compatible with our high-performance binder technologies. As a result, color can be introduced without compromising transparency, gloss, durability, or chemical resistance.

The outcome is a coating system in which professional color control—from super-transparent shades to bold finishes—is achieved with minimal effort for the user: add the colorant, mix, and apply.



SIX1

2-Component (2K)

Primer Epoxy Polyamide

heavy duty - anti-corrosion

Product ID : SIX11250-WH/GR 42 oz / 3.2 lbs SIX15000-WH/GR 1.32 gal / 12.8 lbs
Consumption : 2 layers ± 0.53 lbs/ft² - 0.7oz/ft² 80 micron = 50 ft²
Reachable area : 1 layer ± 0.26 lbs/ft² - 0.4oz/ft² 40 micron = 100 ft²
Hardness : H5
Colors : White, Grey or RAL (RAL Minimum Order 250 pcs 1.32 gal)
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 140°F.

SIX2

2-Component (2K)

Primer Surfacer Acrylic Alkyd

smooth - surface modifier

Product ID : SIX21250-WH/GR 42 oz / 3.2 lbs SIX25000-WH/GR 1.32 gal / 12.8 lbs
Consumption : 2 layers ± 0.44 lbs/ft² - 0.7 oz/ft² 60 micron = 60 ft²
Reachable area : 1 layer ± 0.22 lbs/ft² - 0.4 oz/ft² 30 micron = 120 ft²
Hardness : H3
Colors : White or Grey
Used on : Steel, aluminium, wood, fiberglass, and old paint systems.
Application area : Buildings, marine, airports, bridges



SIX2 is a 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 140°F.



Heavy Duty Primer - Smooth Surfacer



SIX3

2-Component (2K)

Primer PU Wood Filler

surface modifier - absorption reducer

- Product ID** : SIX31500 51 oz / 3.3 lbs
Consumption : 2 layers $\pm 0.40 \text{ lbs/ft}^2 - 0.6 \text{ oz/ft}^2$ 60 micron = 80 ft²
Reachable area : 1 layer $\pm 0.20 \text{ lbs/ft}^2 - 0.3 \text{ oz/ft}^2$ 30 micron = 120 ft²
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%.



Wood or Natural Stone - Filler

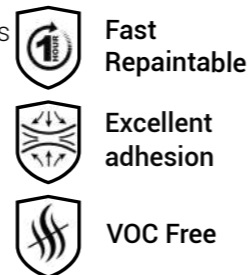
SIX4

1-Component (1K)

Primer Acrylic Waterbased

all surfaces modifier - stain killer

- Product ID** : SIX41000-WH/GR 32 oz / 2.65 lbs SIX44000-WH/GR 1 gal / 10.6 lbs
Consumption : 2 layers $\pm 0.53 \text{ lbs/ft}^2 - 0.7 \text{ oz/ft}^2$ 80 micron = 50 ft²
Reachable area : 1 layer $\pm 0.26 \text{ lbs/ft}^2 - 0.4 \text{ oz/ft}^2$ 40 micron = 100 ft²
Hardness : H3
Colors : White, Grey or RAL (RAL Minimum Order 250 pcs 1 gal)
Used on : Concrete, wood, drywalls and old waterbased paints
Application area : Buildings, walls and ceilings indoor or outdoor

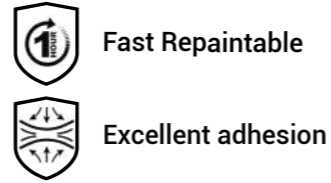


SIX5 2-Component (2K)

Putty Polyester ultra smooth - sandable

- Product ID** : SIX51000-WH/GR 2.2 lbs
- Colors** : White, 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.



SOLV Thinner solvent for all types of our ceramic paint & coating

- Product ID** : SOLV0400 14 oz / 0.8 lbs SOLV2000 64 oz / 3.9 lbs SOLV5000 1.32 gal / 9.7 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

- Product ID** : RETA0400 14 oz / 0.85 lbs ACCL0200 7 oz / 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 ACCL Accelerator.



Scan QR Code for TDS and SDS

Video Application & (Test) Results

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 protective gear. We always recommend using a paint suit, respirator mask and latex or nitrile gloves.


Outfit/Applicators:




Fresh Air Respirator




Paint Suit




Nitrile gloves



HVLP Paint Sprayer
1.3mm / 1.5mm / 1.8mm nozzle



Microfiber Roller
(6mm short nap)



Paint Brush
(acrylic)

Application Information

SI11 / SI12 / SI21 / SI14 / SI31 coatings are suitable for porous and non-porous surfaces such as concrete, steel, wood, acrylic, gypsum, and both painted and unpainted surfaces, for interior and exterior use. They provide strong protection against corrosion and erosion while keeping surfaces cleaner for longer and easier to maintain.

Surface Preparation

Ensure the surface is clean, dry, and free from dust, oil, grease, and contaminants. If needed, apply a suitable primer (SIX1, SIX2, SIX3, SIX4) prior to coating. The surface must be fully dry before application and remain dry for at least 6 hours after application.

2K Coating System (A + B) SI11 / SI12 / SI21 / SI31

Mix Component B into Component A by pouring the full contents of B into A or by using a ratio of 9:1 (A:B) by net weight. Mix until homogeneous.

3K Coating System (A + C + B) SI14

Mix Component C into Component A at a ratio of 7:2 by net weight and stir until homogeneous. Then add Component B at a ratio of 7:1 based on Component A and mix thoroughly. For full kit application, add Component C to A, mix, then add Component B and mix again until homogeneous.

Application

Apply using a spray gun in thin layers until the desired thickness is achieved. A roller or brush may also be used depending on the surface.

Curing

Touch dry approximately 1 hour. 85% cured approximately 4 hours. Full curing approximately 7 days. Initial drying before exposure minimum 24 hours. Pot life approximately 3 hours.

Maintenance

Clean using a high-pressure washer (approximately 80 bar) with biodegradable Reactivation Shampoo.

Tool Cleaning and Solvent

Clean tools and spray equipment using Steril Cleaner. If required, a small amount of compatible solvent may be added to improve flow. Avoid excessive addition as it may reduce coating performance.

How to use our UVA 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 protective gear. We always recommend using a paint suit, respirator mask and latex or nitrile gloves.


Outfit/Applicators:




Fresh Air Respirator




Paint Suit




Nitrile gloves




HVLP Paint Sprayer
1.3mm / 1.5mm / 1.8mm nozzle



Microfiber Roller
(6mm short nap)



Cotton Pads



Paint Brush
(acrylic)

Application Information:

Protect or Renew; Marble, Granite, Varnished wood, HPL, PVC or Vinyl laminate and Melamine. Creates an easy-to-clean, anti-scratch surface that is resistant to UV Discoloration, HF (Hydrofluoric Acid), Hydrochloric Acid, and Citric Acid.

Wipe Application; 1. Clean the surface 2. Sterilize the surface 3. Apply via the cotton pad an even layer 4. Let it cure.

Spray Application; Use an HVLP (High Volume Low Pressure) spray gun with 60-80% transfer efficiency. Fit the spray gun with a 1.0-1.3 mm fluid tip. Set air pressure to 20-30 psi.

Preparation Steps:

1. Stir the coating thoroughly for 30 seconds before use.
2. Prior to application, strain the mixed coating through a suitable paint filter (e.g., 190-250 µm) to ensure a clean, defect-free spray.
3. Wash and decontaminate the surface.
4. Wet sand / scuff using 1500-2000 grit sandpaper.
5. Mask off any parts not to be coated.
6. Ensure environmental conditions are below 65% humidity.
7. Perform a final clean using 100% acetone.
8. Wipe with a tack cloth to remove any dust or lint.

Application Procedure:

1. Spray a light, even coat. Allow a 5-minute flash-off time, or until outgassing stops.
2. Apply a second coat. Allow to flash off for at least 15 minutes, or until outgassing stops.
3. Unmask carefully before the coating fully cures.

Curing:

Tough Dry 5min, Hard Dry 2 Hours, 85% Cured 12 Hours, 100% Cured 5 Days
Refer to the TDS/SDS for more information

NANO-CERAMIC®

WWW.NANO-CERAMIC.COM THE NEXT GENERATION COATINGS



The Leader in Durability

Did you know that our Thin film Coatings are made from pure silica, which is one of the most common elements on Earth?

Dealer