NANO-CERAMIC®

WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS

Military/Navy Permanent Coating Systems

What makes NANO-CERAMIC Permanent Coating System so durable?

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

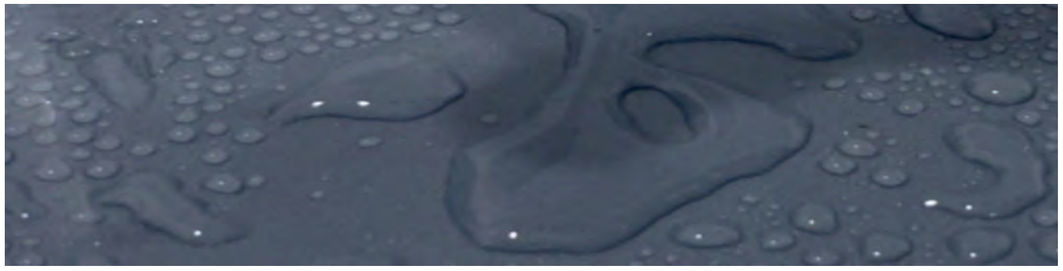
NANO-CERAMIC permanent coating system is 600°F resistant and more than 4 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

Zero Maintenance for decades to come!

Our NANO-CERAMIC permanent coating is (non PFAS) rigorously tested by an independent testing 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 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%.

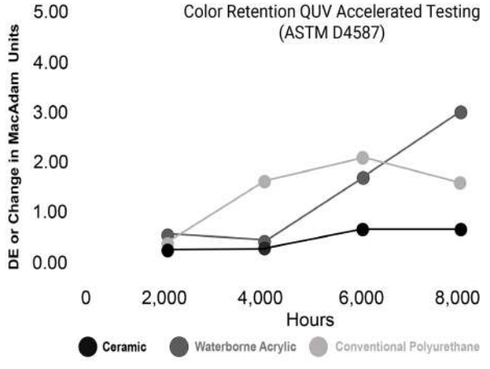
In a new analysis from IPTEK ITS 2023 concerning Drag Reduction, the following conclusions have been obtained. It was found that there was an increase in acceleration due to drag reduction on the ship model treated with a superhydrophobic coating, showing a 31% improvement compared to the non-coated surface and a 27% improvement compared to a conventionally anti-fouling coated surface.

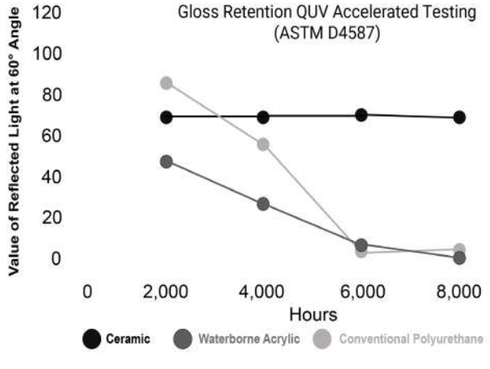
As published in the International Journal of Marine Engineering Innovation and Research. Click here for the IPTEK analyses.

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.

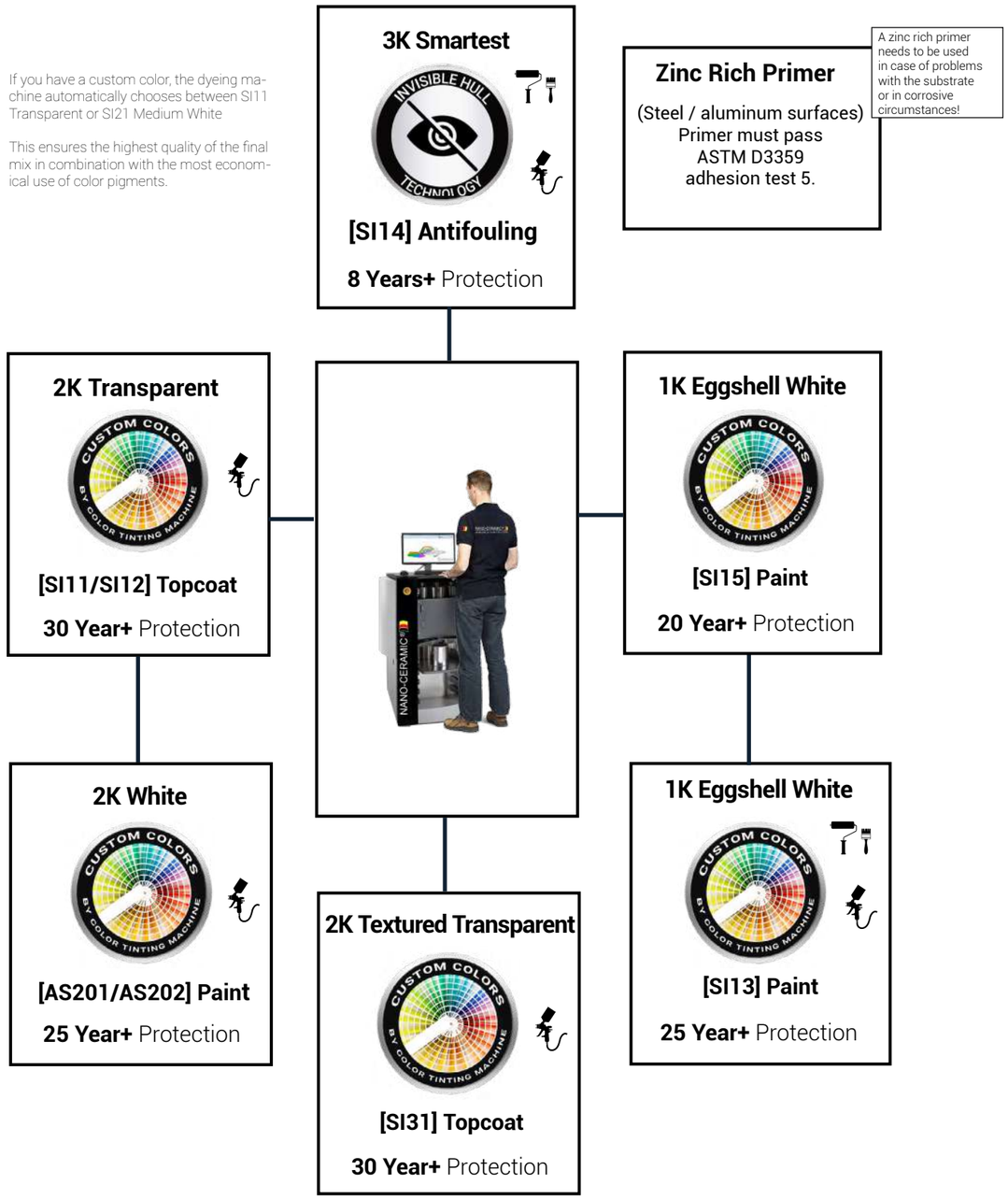
Conventional gelcoats are a mixture with Epoxy or Polyurethane resins, of which the quality of resin and pigments are the most important factor in the ultimate strength. Most have a lifespan of 15 years, with hardness, color and gloss retention (sun fading) and manual mixing towards consistent quality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

Quality Comparison 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
Permeability water vapour	**Average**	**Average**	Good	**Average**	Excellent
Water Absorption Rate	**5-15%**	**1%**	**2%**	**3%**	0%
Aging at 158°F	**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+

Ceramic Coating & Paint System



SI11/SI12 2-Component (2K)

Ceramic Topcoat Transparent
for glossy or matt surfaces

How to use: Page 38

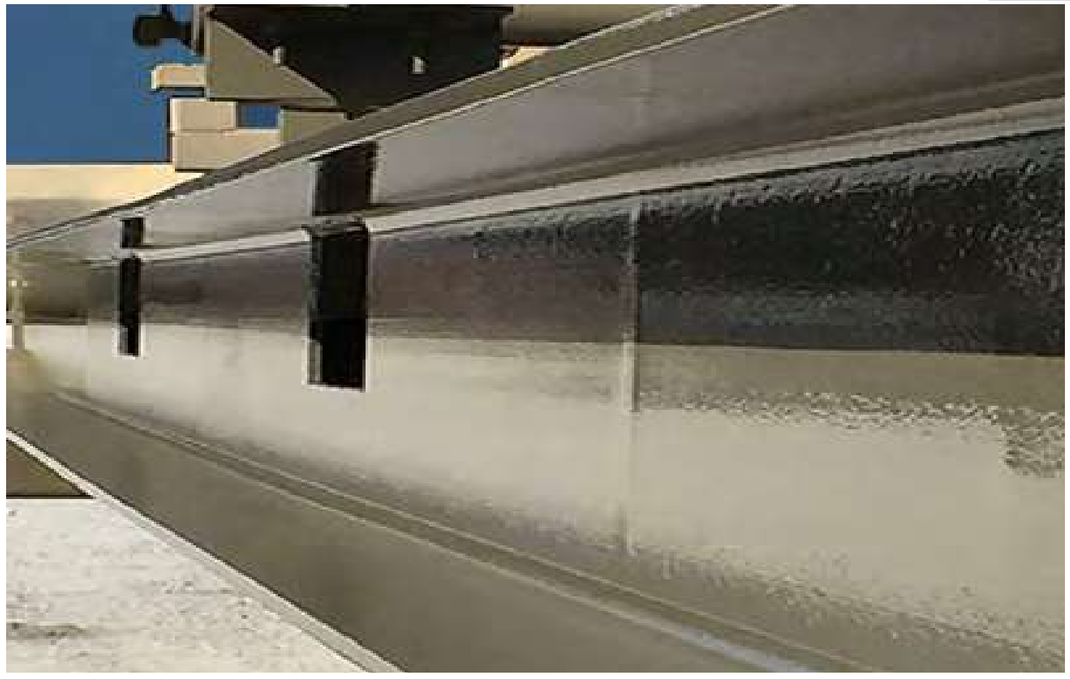
Product ID	: SI112000 67 oz / 4.2 lbs Transparent Gloss
	: SI122000 67 oz / 4.4 lbs Transparent Matte
Consumption	: 3 layers 0.06 lbs/ft² - 0.96 oz/ft² = 3 mil / 70 ft²
Reachable area	: 2 layers 0.04 lbs/ft² - 0.64 oz/ft² = 2 mil / 140 ft²
	: 1 layer 0.02 lbs/ft² - 0.32 oz/ft² = 1 mil / 210 ft²
Hardness	: H9
Used on	: Fiberglass, Aluminium, Steel Stone, Marble, Wood, Ceramics, Fiberglass,
Application area	: Buildings, airports, offshore structures, bridges, tunnels, ships, tanks, verhicles, 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 has an outstanding hydrophobic effect.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- This coating does not absorb any water
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 600°F. 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 longer**
- **Impact Resistance 30"-2lbs**
- **Thermal Shock-Resistant**



Permanent Hydrophobic - Self Cleaning

SI21/SI22 2-Component

Ceramic Paint White
for glossy and satin surfaces

How to use: Page 38

Product ID	: SI212000 67 oz / 5.3 lbs
	: SI222000 67 oz / 5.5 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, concrete
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 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 600°F. suitable for making walls fire retardant and is most best solution to make rooftops waterproof and heat reflective.
- Superior alternative for Epoxi flooring or repaints .
- Repaints of ceramic bathroom tiles.
- Zero absorbtion, waterproof.

Expected Life Duration up to 25 years+

Easy to apply
Repaintable

Cut maintenance costs

Anti-water spot
Anti-corrossion

Permanent
hydrophobic

Self-cleaning
stays cleaner longer

Anti-scratch

Visibility

Protects your
investment

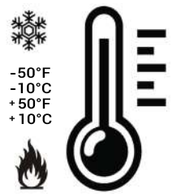
Thermal Shock - Impact Resistent

SI31 2-Component (2K)

Textured Transparent Semi Gloss
antislip - high inpact resistant

Product ID : SI312000 67 oz / 4.6 lbs
Consumption : 3 layers 0.050 lbs/ft² - 0.76 oz/ ft² = 3 mil / 90 ft²
Reachable area : 2 layers 0.033 lbs/ft² - 0.51 oz/ ft² = 2 mil /180 ft²
: 1 layer 0.017 lbs/ft² - 0.25 oz/ ft² = 1 mil /270 ft²
Hardness : H9
Used on : Gelcoat, fiberglass, steel, aluminium,
: plastics, wood, virtually any surface.
Application area : Buildings, marine, offshore structures, bridges, etc

How to use: Page 38



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 absorbtion, waterproof, insulation and heat rejecting

Expecteted 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
30"-2lbs

Safes 10-20% on
electricty

Anti Slip - Noice Reduction

SI14 3-Component (3K)

Ceramic Smart Antifouling
Transparent black/red/blue/grey

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 : Concrete Gelcoat, fiberglass, steel, aluminium, plastics, wood, virtually any surface.
Application area : Offshore structures, bridges, ships, tanks, land walls

How to use: Page 38

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 600°F

Expected Life Duration up to 8 year+

Easy to apply
Repaintable

Cut maintenance costs

Organic Cupper and Tin
Non Biocidal

Super Sleek Surface
Algea release <6knots

Hydrophobic
Hydrophilic

Self-cleaning
stays cleaner longer

Save fuel

Impact Resistance
30" - 2lbs

Thermal Shock-
Resistant

Super Smooth - Saves Fuel

SI13 2-Component (2K)

Ceramic Paint
for egg-shell surfaces

How to use: Page 38

Product ID	: SI132000 67 oz / 7.3 lbs White
Consumption	: 2 layers 0.050 lbs/ft² - 0.48 oz/ft² = 3.5 mil / 140 ft²
Reachable area	: 1 layer 0.025 lbs/ft² - 0.24 oz/ft² = 1.8 mil / 280 ft²
Hardness	: H7
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, walls, ceilings, indoors, or outdoor overhang
Application area	: Buildings, airports, tunnels, hotels, private housing etc.

SI13 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 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.

Expected Life Duration up to 25 year+

- **Near-permanent**
- **Anti-corrosion**
- **Permanent hydrophobic**
- **Anti-pollution**
- **Anti-algae**
- **UV protection**
- **Self-cleaning Stays cleaner longer**
- **Thermal Shock-Resistant**

Passive Cooling - Isolating

SI15 1-Component (1K)

Ceramic Paint White
for egg-shell surfaces

Product ID : SI152000 67 oz / 6.6 lbs White
Consumption : 2 layers 0.048 lbs/ft² - 0.48 oz/ ft² = 3.5 mil/140 ft²
Reachable area : 1 layer 0.024 lbs/ft² - 0.24 oz/ ft² = 1.8 mil/280 ft²
Viscosity : 20
Hardness : H6
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, walls, ceilings, indoors, or outdoor overhang
Application area : Buildings, airports, tunnels, hotels, private housing etc.

How to use: Page 38

SI15 is an incredibly strong 1-component eggshell paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

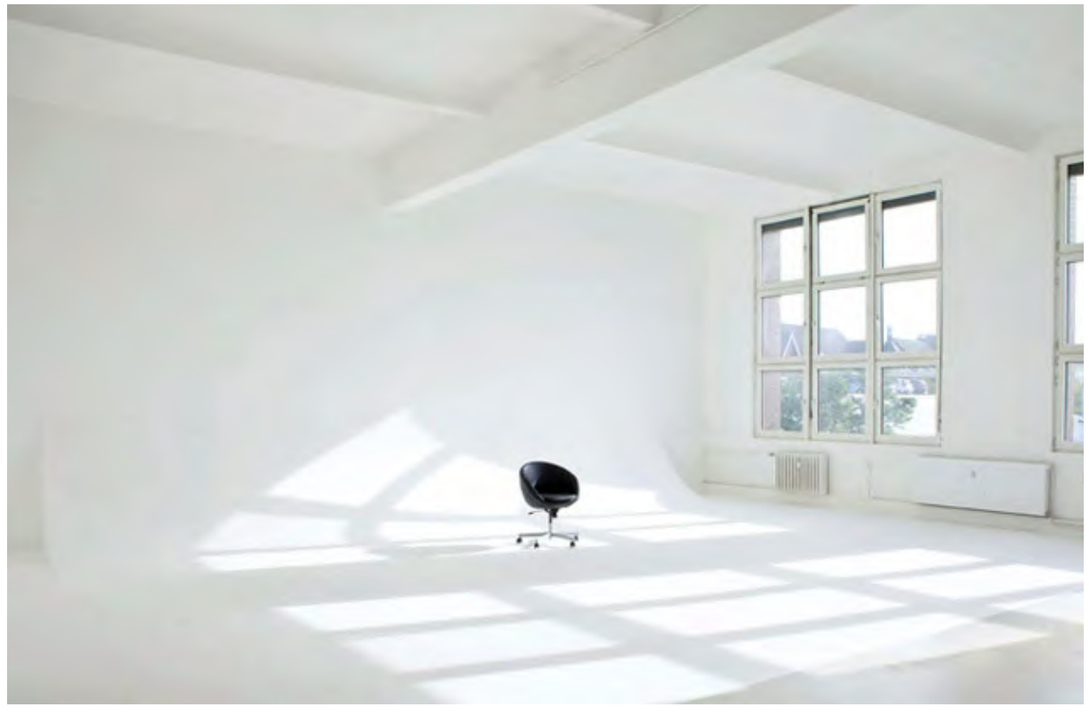
Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating 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.
-

Expected Life Duration up to 20 year+

Near-permanent
Anti-corrosion
Permanent hydrophobic
Anti-pollution
Anti-algae
UV protection
Self-cleaning Stays cleaner longer
Thermal Shock-Resistant

Chemical - Temperature Resistant (300°C)



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.

Prisma-RT

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**

Yelllow
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

SI13 White Egg-Shell (Flat Finish) 15/25 (20/60°)
SI15 White Egg Shell (Flat Finish) 18/28 (20/60°)
SI21 White Gloss 49/77 (20/60°)
SI22 White Satin 33/59 (20/60°)
SI41 Textured White Semi Gloss 41/69 (20/60°)
SI42 Textured White Matte 11/21 (20/60°)

Original — Cool white
RAL 9018 — Papyrus white
RAL 3015 — Light pink
RAL 9001 — Cream white
RAL 9022 — Pearl light grey
RAL 5007 — Pastel blue
RAL 9002 — Grey white
RAL 9023 — Pearl dark grey
RAL 4009 — Pastell violet
RAL 9003 — Signal white
RAL 1000 — Green beige
RAL 6027 — Light green
RAL 9004 — Signal black
RAL 1001 — Beige
RAL 7000 — Squirell grey
RAL 9005 — Jet black
RAL 1002 — Sand yellow
RAL 1036 — Pearl gold
RAL 9006 — White aluminium
RAL 1011 — Brownbeige
RAL 8029 — Pearl copper
RAL 9007 — Grey aluminium
RAL 1013 — Pearl white
RAL 4012 — Pearl blackberry
RAL 9010 — Pure white
RAL 1014 — Ivory
RAL 5025 — Pearl gentian blue
RAL 9011 — Graphite black
RAL 1015 — Light ivory
RAL 6036 — Pearl opal green
RAL 9016 — Traffic white
RAL 9017 — Traffic black
RAL 8016 — Mahogany braun

Wood

SI11 Transparent Gloss 51/78 (20/60°)
SI12 Transparent Matte 11/21 (20/60°)


SI11 Transparent


SI11 Light


SI11 Nut


SI11 Colonial

Industrial

SI11 Transparent Gloss 51/78 (20/60°)
SI21 White Gloss 49/77 (20/60°)
SI22 White Satin 33/59 (20/60°)

Transparent
RAL 1026 — Lumious yellow
RAL 3020 — Traffic red
RAL 9005 — Jet black
RAL 1004 — Golden yellow [Cat]
RAL 6002 — Leaf green [J.D Deere]
RAL 7035 — Light grey
RAL 7011 — Dark grey
RAL 7001 — Silver grey
RAL 8002 — Signal brown
RAL 8025 — Pale brown

Marine

SI12 Transparent Matte 11/21 (20/60°)
SI41 Textured White Semi Gloss 41/69 (20/60°)
SI42 Textured White Matte 11/21 (20/60°)

Military

SI31 Textured Transparent Semi Gloss 41/69 (20/60°)
SI33 Textured Black Semi Gloss 41/69 (20/60°)

Original — Cool white
RAL 3000 — Fire red
Transparent matte
Light stone
RAL 9010 — Pure white
RAL 3004 — Burgundy
RAL 7031 — Blue grey
RAL 6031 — Bronze green
RAL 9001 — Cream white
RAL 7036 — Platium
RAL 9005 — Jet black
RAL 6451 — Brunswick green
RAL 5023 — Distant blue
RAL 9005 — Jet Black
RAL 6006 — NATO green
RAL 7015 — Dark sea grey
RAL 1023 — Traffic yellow
RAL 5018 — Turqoise bleu
RAL 7024 — Graphite grey
RAL 5008 — [RAF] Blue grey
RAL 7001 — Silver gray
RAL 6027 — Light green
RAL 1015 — Desert sand
RAL 1015 — Light ivory
RAL 5000 — Violet blue
Camo beige
RAL 9016 — Pure white
RAL 5012 — Light blue
Dark grey camo
RAL 9001 — Cream
RAL 5002 — Ultramarine blue
Dark brown camo
RAL 1001 — Beige
RAL 5013 — Sapphire blue
RAL 6022 — Olive drap
RAL 1020 — Olive yellow
RAL 5005 — Signal blue
Very dark drap

Antifouling

SI14 Color 31/41 (20/60°)

Transparent
RAL 9005 — Jet Black
RAL 3001 — Signal Red
RAL 5002 — Ultra marine blue
RAL 7004 — Signal Grey

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 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 in Marine Protection?

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:

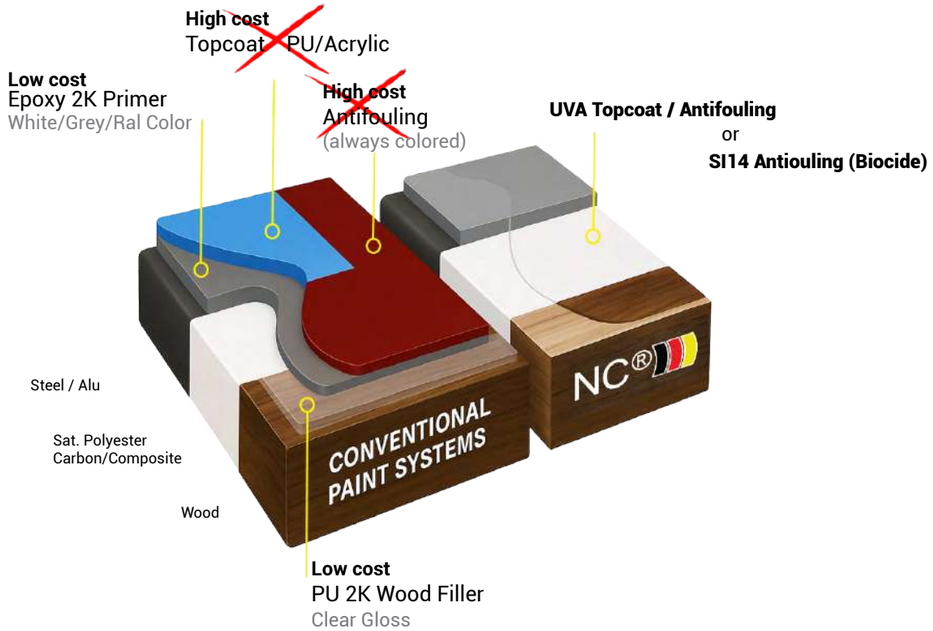
- Yachts & Boats – Hulls, decks, topsides, and superstructures
- Speedboats – UV protection and ultra-slick finish for high-performance watercraft
- Marine Infrastructure – Docks, piers, pontoons, and submerged structures
- Ship Interiors – Tables, countertops, cabins, walls, and decorative panels
- 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 our hydrophobic coatings boost speed and cut fuel use?

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.

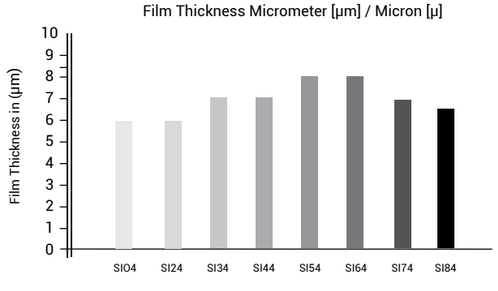
Coverage & Application Efficiency

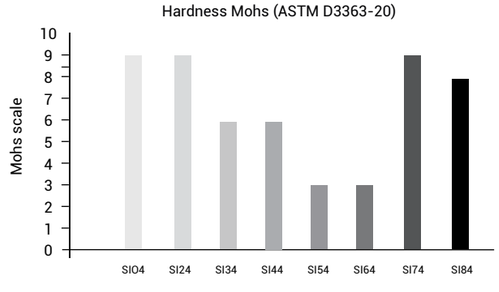
UVA Topcoat is engineered for maximum efficiency with minimal material use—delivering high-performance protection at a fraction of the volume required by traditional coatings.

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 32-33. 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.

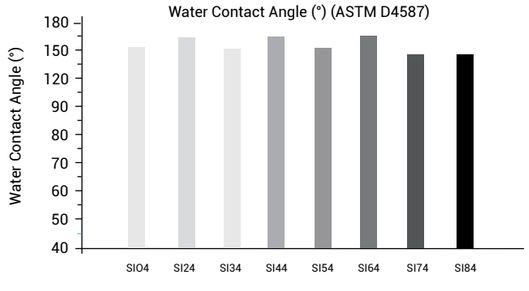




Quality Comparison of paints technologies

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 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	8/16/24



SIO4 1-Component (1K)

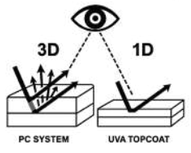
H9 UVA Topcoat Transparent
for glossy surfaces

Product ID : SIO41LUVA 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 >0.83"
Used for : Fiberglass, steel, aluminium, plastics, wood
Application field : Marine, exteriors, antifouling, interiors

How to use: Page 39

MaxHard LowFlex

How does it look visually?



SIO4 is an incredibly strong 1-component high performance coating and 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
- On the ship's hull, for higher speed and lower fuel use.
- 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 550°F
- Superb adhesion even on glass or stainless steel.
- Can be sprayed multilayered.
- Transparent, Opaque, solid-color or vibrant, transparent color finishes.

Expected life duration 8-16 or 24 Years (layer thickness)

Save fuel
Higher speeds

Near-permanent

Anti-corrosion

Permanent hydrophobic

Anti-pollution

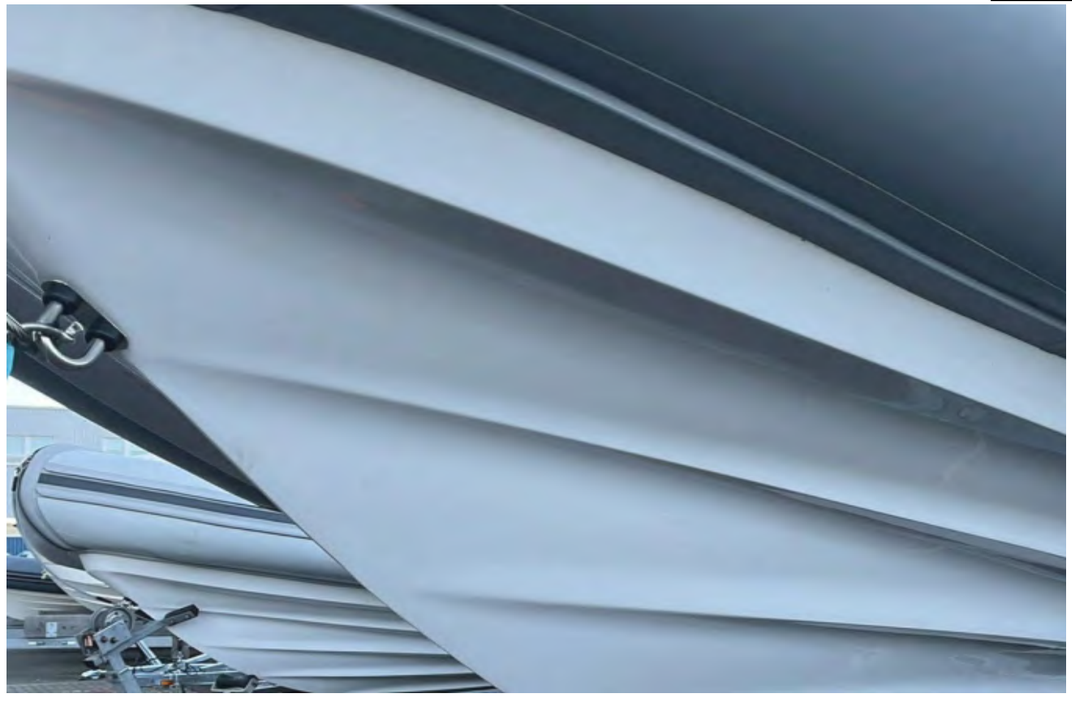
Anti-algae

UV protection

Self-cleaning
Stays cleaner longer

Impact Resistance
30" -2 lbs

Thermal Shock-Resistant



Higher Speeds - Fuel Saving

SI24 1-Component (1K)

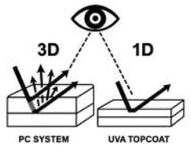
H9 UVA Topcoat Transparent
for matte surfaces

Product ID : SI241LUVA 32 oz / 2.13 lbs SI2405UVA 16 oz / 1.05 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 >0.83"
Used for : Fiberglass, steel, aluminium, plastics, wood, vinyl canopy
Application field : Marine, exteriors, interiors camouflage.

How to use: Page 39

MaxHard LowFlex

How does it look visually?



SI24 is an incredibly strong 1-component high performance coating and 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 550°F
- Superb adhesion even on glass or stainless steel.
- Can be sprayed multilayered.
- Transparent, Opaque, solid-color or vibrant, transparent color finishes.

Expected life duration 8-16 or 24 Years (layer thickness)

- **Near-permanent**
- **Anti-corrosion**
- **Permanent hydrophobic**
- **Anti-pollution**
- **Anti-algae**
- **UV protection**
- **Self-cleaning Stays cleaner longer**
- **Impact Resistance 30" - 2 lbs**
- **Thermal Shock-Resistant**

Anti Scratch - UV Resistant

Marine-Grade Color Protection — Super Transparent

For boats where weight, speed, and durability matter, our advanced hybrid coating system offers a breakthrough: vibrant transparent tints or metallic finishes without sacrificing performance. By blending NANO-CERAMIC® Super Transparent Colorants into our UVA Topcoat, you get:

Ultra-thin coating (<15 microns) = minimal weight
H9 surface hardness = max scratch resistance
Hydrophobic & anti-fouling = fast cleaning, less drag
UV & salt resistant = marine-grade longevity
Clear or colored: keep visibility through glass or plexi
Optional metallic effect for custom marine finishes

Perfect for:

Plexiglass hatches & windscreens
Cabin glass, partitions, skylights
Carbon fiber panels & consoles
Stainless/aluminum trims & detailing

TR.OXIDE YELLOW A-2R 130
Masstone
Tint
77492-1 **3.2 oz**

TRANSOXIDE RED A-G 130
Masstone
Tint
77491-1 **3.2 oz**

YELLOW A-N4G 100-ST
Masstone
Tint
279376 **3.2 oz**

RED A-P2Y 100-ST
Masstone
Tint
289404 **3.2 oz**

PINK A-EB 100-ST
Masstone
Tint
287516 **3.2 oz**

BLUE A-BTR 100-ST-
Masstone
Tint
290247 **3.2 oz**

BLUE A-BTG 100-ST
Masstone
Tint
275536 **3.2 oz**

GREEN A-GBX 100-ST
Masstone
Tint
323291 **3.2 oz**

BLACK A-NB 100-ST
Masstone
Tint
289518 **3.2 oz**

BLACK A-NY 100-ST
Masstone
Tint
272060 **3.2 oz**

Lightweight, Ultra-Hard, Built for Speed. Opaque Ral

YELLOW A-F2G 100
Masstone
Tint
11785 **3.2 oz**

YELLOW A-H3G 100
Masstone
Tint
11781 **3.2 oz**

YELLOW A-HRD 100
Masstone
Tint
21108 **3.2 oz**

ORANGE A-HLD 100
Masstone
Tint
11780 **3.2 oz**

RED A-D3GD 130
Masstone
Tint
56110 **3.2 oz**

PINK A-E 130
Masstone
Tint
73915 **3.2 oz**

RED VIOLET A-ER 130
Masstone
Tint
73900 **3.2 oz**

VIOLET A-RL 100
Masstone
Tint
51319 **3.2 oz**

BLUE A-BG 100
Masstone
Tint
74160 **3.2 oz**

GREEN A-GNX 130
Masstone
Tint
74260 **3.2 oz**

BLACK A-N 100
Masstone
Tint
77266 **3.2 oz**

OXIDE YELLOW A-BV 100
Masstone
Tint
771740 **3.2 oz**

OXIDE YELLOW A-CR 100
Masstone
Tint
77310 **3.2 oz**

OXIDE YELLOW A-R 100
Masstone
Tint
77492 **3.2 oz**

OXIDE RED A-B 100
Masstone
Tint
77491 **3.2 oz**

WHITE A-R 100
Masstone
Tint
77891 **3.2 oz**

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 - 0.7 oz/ft² 80 micron = 50 ft²
Reachable area : 1 layer +/- 0.26 lbs/ft² - 0.4o z/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

Fast Repaintable

Excellent adhesion

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°.

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

Fast Repaintable

Excellent adhesion

VOC Free

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°.

Heavy Duty Primer - Smooth Surfacer

SIX3 2-Component (2K)

Primer PU Wood Filler
surface modifier - absorbtion reducer

Product ID : SIX31500 51 oz / 3.3 lbs
Consumption : 2 layers +/- 0.40 lbs/ft² - 0.6 oz/ft² 60 micron = 80 ft²
Reachable area : 1 layer +/- 0.20 lbs/ft² - 0.3 oz/ft² 30 micron = 120 ft²
Hardness : H4
Used on : Steel, Aluminium and other organic surfaces
Application area : Buildings, marine, airports, offshore structures, bridges

Fast Repaintable

Excellent adhesion

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%.

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
onsumption : 2 layers +/- 0.53 lbs/ft² - 0.7 oz/ft² 80 micron = 50 ft²
Reachable area : 1 layer +/- 0.26 lbs/ft² - 0.4 oz/ft² 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

Fast Repaintable

Excellent adhesion

VOC Free

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

Wood or Natural Stone - Filler

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.

Fast Repaintable

Excellent adhesion

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.

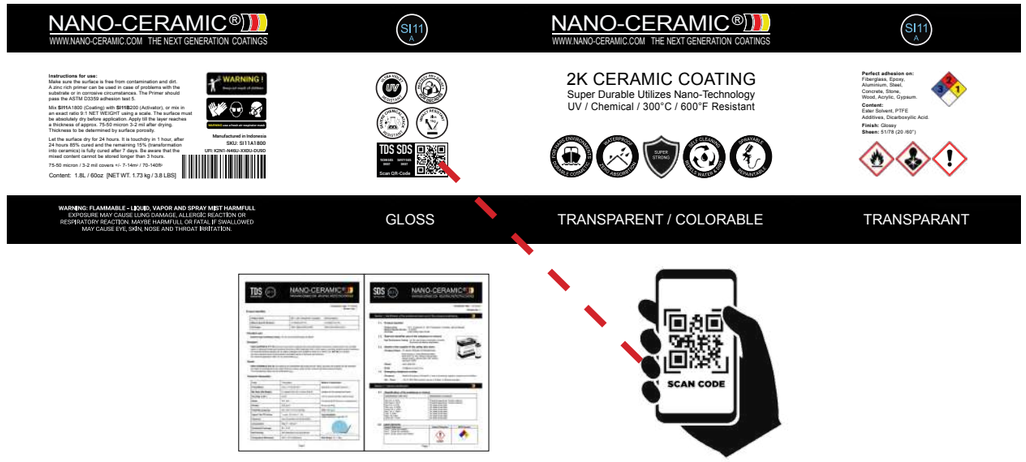
RETA/ACCL Retarder Accelerator

slow down flash time or speed up curing

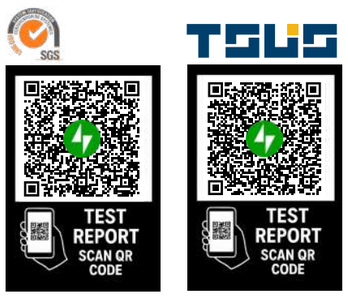
Product ID : RETA0400 14 oz / 0.85 lbs ACCL0200 7 oz / 0.4 lbs

If your application needs a longer flash time (for example, in hot temperatures) to build up the layer with a second or third coat, you can add the RETA Retarder. If you want to speed up the curing process, you can add the ACCL Accelerator. It can reduce curing time by 30–70% compared to uncatalyzed systems, and full hardness can develop 1.5–2× faster.

Scan QR Code for TDS and SDS



(Test) Results



Videos Application

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

Application information
The SI11/SI12/SI21/SI14/SI31 coatings can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, glasfiber, 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 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-SI21B-SI31B with the can of SI11A-SI12A-SI21A-SI31A by pouring can B into can A, or measure **exactly by NET WEIGHT** in a ratio of 9:1 **by using a scale** 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 your desired 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. If have orange peel you may wet /sand the surface wit P1500 and after P2000 and polish with One Step Polish till high shine. The surface can simply be maintained with a high pressure washer at 80 bar using our biologically degradable Reactivaing Shampoo. The surface can simply be maintained with a high pressure washer at 80 bar using our biologically degradable Reactivating Shampoo.

Tool cleaning and Thinner solvent
The individual components, as well as the mixing system of the paint sprayer, can be diluted and cleaned using our solvent. All of our paints and coatings are ready to use, for certain spray applications, especially dark colors which require more color pigment than average, it may be necessary to use our SOLV thinner solvent to achieve optimal flowability.

Outfit/Applicators:

Fresh Air Respirator

Paint Suit

Nitrile gloves

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

Paint Roller (Microfiber)

Respirator

Paint Brush (acrylic)

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

Instructions for use:

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.

Outfit/Applicators:

Respirator

Paint Suit

Nitrile gloves

HVLP Paint Sprayer
1.0-1.3mm / 0.03-0.05" nozzle

Microfiber Roller (6mm short nap)

Cotton Pads

Paint Brush (acrylic)

NANO-CERAMIC®

WWW.NANO-CERAMIC.COM INDUSTRIAL PROTECTIVE COATINGS

Did you know that our Permanent Coating System repels water and dirt and lasts 25 Years+ ?

Dealer