

NANO-CERAMIC®



WWW.NANO-CERAMIC.COM THE NEXT GENERATION COATINGS



Marine Permanent Coatings 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 300°C 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.

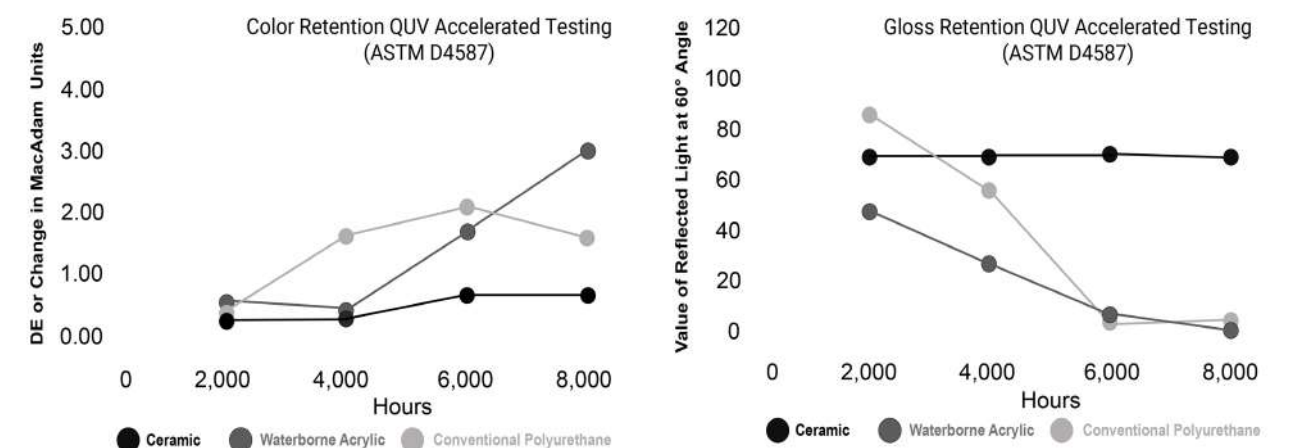
These findings were published in the International Journal of Marine Engineering Innovation and Research. Click [here](#) for the IPTEK analyses.

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.

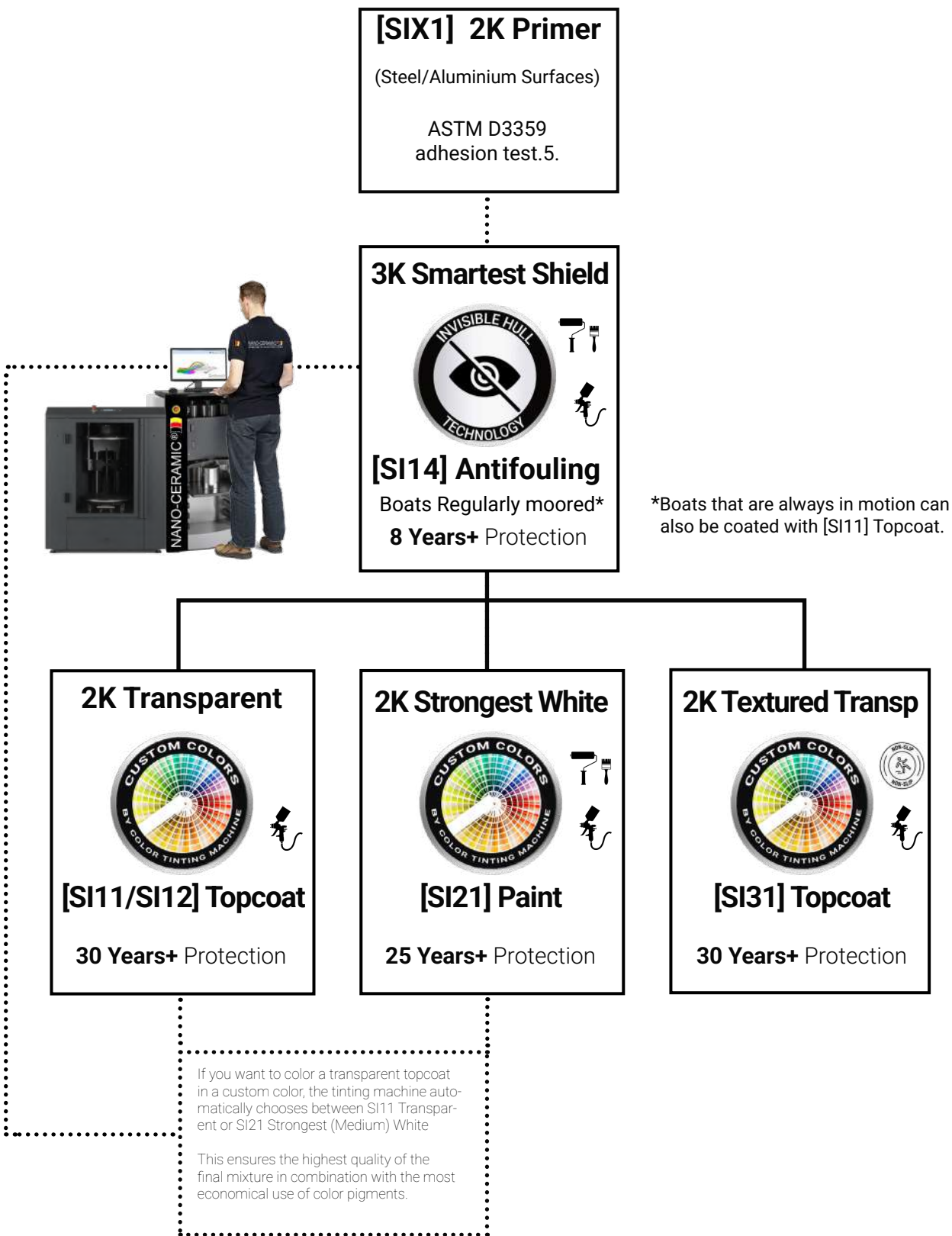
Most have a lifespan of up to 15 years, with hardness, colour and gloss retention (UV fading), as well as manual mixing and inconsistent quality, being among the most common challenges in maintaining surfaces at an aesthetically acceptable level.

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	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
Water vapour permeability	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+

Ceramic Coating & Paint System.





SI11

2-Component (2K)

Topcoat Transparent for glossy surfaces

Article Nr	: SI112000 2 L / 1.900 g
Consumption	: 3 layers +/- 270 g /m ² - 285 ml/m ² 75 micron = 7 m ²
Reachable area	: 2 layers +/- 180 g /m ² - 190 ml/m ² 50 micron = 14 m ² : 1 layer +/- 90 g /m ² - 95 ml/m ² 25 micron = 21 m 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 300°C.

Expected life duration: up to 30+ years



How to use: Page 11+ 32



SI12

2-Component (2K)

Topcoat Transparent for matte surfaces

Article Nr	: SI112000 2 L / 2.000 g
Consumption	: 3 layers +/- 270 g /m ² - 285 ml/m ² 75 micron = 7 m ²
Reachable area	: 2 layers +/- 180 g /m ² - 190 ml/m ² 50 micron = 14 m ² : 1 layer +/- 90 g /m ² - 95 ml/m ² 25 micron = 21 m 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 300°C.

Expected life duration: up to 30+ years



How to use: Page 11 + 32





SI21

2-Component (2K)

Paint Strongest White for glossy surfaces

Article Nr	: SI212000 2 L / 2.400 g
Consumption	: 3 layers +/- 200 g/m ² - 165 ml/m ² 75 micron = 12 m ²
Reachable area	: 2 layers +/- 130 g/m ² - 110 ml/m ² 50 micron = 16 m ²
	: 1 layer +/- 65 g/m ² - 55 ml/m ² 25 micron = 24 m ²
Hardness	: H8
Used for	: Fiberglass, steel, aluminium, plastics, wood
Application field	: Marine, exteriors, interiors

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 water.
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 300°C

Expected life duration: up to 25+ years



How to use: Page 11+ 32

- Easy to apply Repaintable**
- Cut maintenance costs**
- Anti-water spot Anti-corrosion**
- Permanently hydrophobic**
- Self-cleaning Easy to clean**
- Anti-scratch**
- Impact resistance 1kg / 80cm**
- Protects your investment**



SI14

3-Component (3K)

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

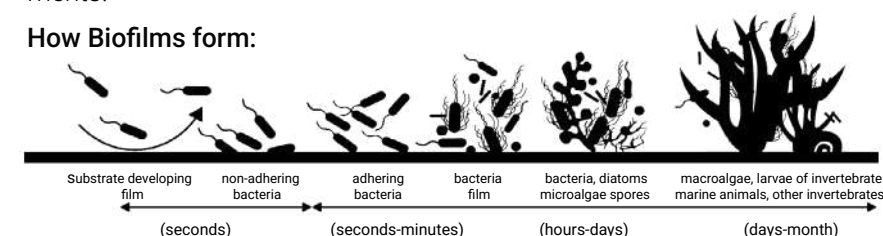
Article Nr	: SI141000-BK-RD-BL-GR 1 L / 950 g
	: SI144000-BK-RD-BL-GR 4 L / 3.800 g
Consumption	: 3 layers 270 g/m ² - 286 ml/m ² = 150 micron / 14 m ²
Reachable area	: 1 layer 90 g/m ² - 95 ml/m ² = 50 micron / 42 m ²
Hardness/Viscosity	: H7
Used for	: Fiberglass, steel, aluminium, plastics, wood
Application 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 6+ 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 Easy to Clean**
- Reduce fuel consumption**
- Impact resistance 1kg / 80cm**
- Thermal shock-resistant**



SI31

2-Component (2K)

Textured Transparent Semi Gloss antislip - high impact resistant

Article Nr	: SI312000 2 L / 2.000 g
Consumption	: 3 layers +/- 222 g/m ² - 222 ml/m ² 90 micron = 9 m ²
Reachable area	: 2 layers +/- 111 g/m ² - 111 ml/m ² 60 micron = 18 m ²
	: 1 layer +/- 74 g/m ² - 74 ml/m ² 30 micron = 27 m ²
Hardness	: H9
Used on	: Gelcoat, fiberglass, steel, aluminium, : plastics, wood, virtually any surface.
Application area	: Marine, exteriors, interiors

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 absorption, waterproof, insulating, and heat-rejecting

Expected life duration: up to 25+ years



How to use: Page 11+ 32

- Non-Slip**
- Easy to apply
Repaintable**
- Cut maintenance
costs**
- Anti-water spot
Anti-corrosion**
- Permanently
hydrophobic**
- Self-cleaning
Easy to clean**
- Anti-scratch**
- Impact resistance
1kg / 80cm**
- Protects your
investment**

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 4 L



Quinacridone Red
Masstone
Tint
844-0451 1 L



Scarlet Red
Masstone
Tint
844-0526 1 L



Lead Free Orange
Masstone
Tint
844-0982 1 L



Trans Red Oxide
Masstone
Tint
844-1054 1 L



Red Oxide
Masstone
Tint
844-1063 1 L



Burnt Umber
Masstone
Tint
844-1352 1 L



Trans Yellow Oxide
Masstone
Tint
844-1852 1 L



Yellow Oxide
Masstone
Tint
844-1863 1 L



Lead Free Med Yellow
Masstone
Tint
844-2555 1 L



Yellow
Masstone
Tint
844-2826 1 L



Organic Yellow
Masstone
Tint
844-2852 1 L



PHTHALO Green
Masstone
Tint
844-5558 1 L



Quinacridone Violet
Masstone
Tint
844-9451 1 L



Lamp Black
Masstone
Tint
844-9955 1 L



PHTHALO BLUE
Masstone
Tint
844-7262 1 L

Color card

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 9001

Cream white

RAL 9002

Grey white

RAL 9003

Signal white

RAL 9004

Signal black

RAL 9005

Jet black

RAL 9006

White aluminium

RAL 9007

Grey aluminium

RAL 9010

Pure white

RAL 9011

Graphite black

RAL 9016

Traffic white

RAL 9018

Papyrus white

RAL 9022

Pearl light grey

RAL 9023

Pearl dark grey

RAL 1000

Green beige

RAL 1001

Beige

RAL 1002

Sand yellow

RAL 1011

Brownbeige

RAL 1013

Pearl white

RAL 1014

Ivory

RAL 1015

Light Ivory

RAL 9017

Traffic black

RAL 3015

Light pink

RAL 5007

Pastel blue

RAL 4009

Pastell violet

RAL 6027

Light green

RAL 7020

Squirrel grey

RAL 1036

Pearl gold

RAL 8029

Pearl copper

RAL 6012

Pearl blackberry

RAL 5025

Pearl gentian blue

RAL 6036

Pearl opal green

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 8032

Signal brown

RAL 8025

Pale brown

Other colors need minimal 100 kg

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°)

Original

Cool white

RAL 9010

Pure white

RAL 9001

Cream white

RAL 5023

Distant blue

RAL 1023

Traffic yellow

RAL 7001

Silver gray

RAL 1015

Light Ivory

RAL 9016

Pure white

RAL 9001

Cream

RAL 1001

Beige

RAL 1020

Olive yellow

RAL 3000

Fire red

RAL 3004

Burgundy

RAL 7036

Platinum

RAL 9005

Jet Black

RAL 5019

Turquoise bleu

RAL 6027

Light green

RAL 9000

Violet blue

RAL 5012

Light blue

RAL 5002

Ultramarine blue

RAL 5013

Sapphire blue

RAL 5005

Signal blue

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

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

Transparent matte

RAL 7031

Blue grey

RAL 9005

Jet black

RAL 5006

NATO green

RAL 7024

Graphite grey

RAL 1015

Desert sand

RAL 9000

Camo beige

Dark grey camo

RAL 6022

Olive drap

Very dark drap

Light stone

RAL 6031

Bronze green

RAL 6451

Brunswick green

RAL 7015

Dark sea grey

RAL 5008

[RAF] Blue grey

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, 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:

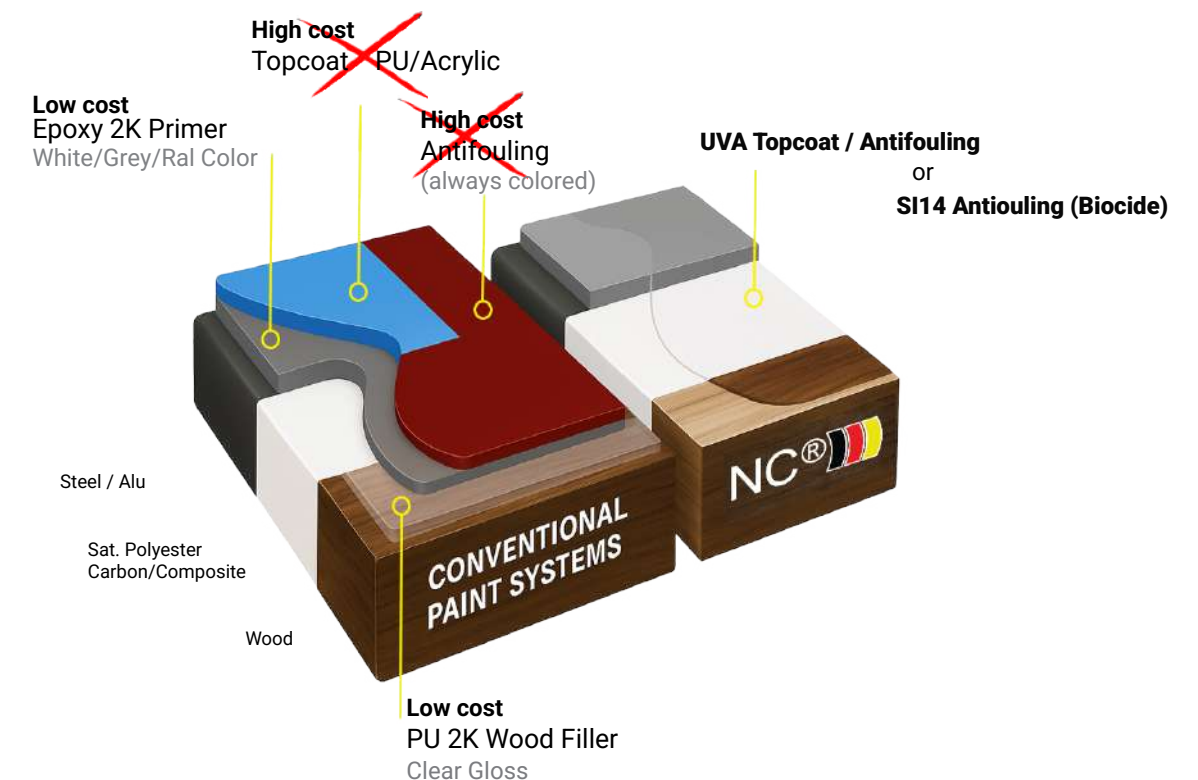
- Yachts & Boats – Hulls, decks, topsides, and superstructures
- Speedboats – UV protection and ultra-slick finish for high-performance watercraft
- Marine Infrastructure – Docks, piers, pontoons, and submerged structures
- Ship Interiors – Tables, countertops, cabins, walls, and decorative panels
- 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.

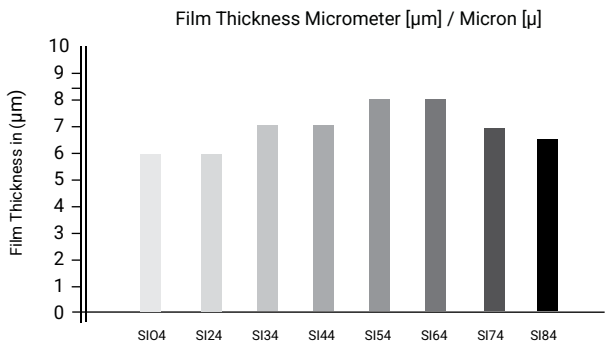
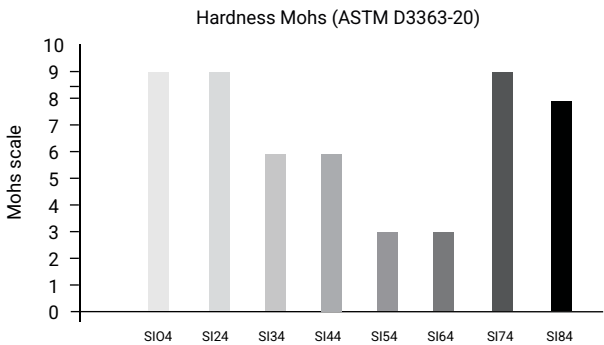
Apply wet-on-wet: once the first coat flashes off (dry to the touch but still tacky), you can immediately apply the next. This method prevents trapped gases and creates a seamless, chemical-resistant film with hydrophobic properties—making surfaces easier to clean and maintain.

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 ±12.5 g/m² per layer (by wipe or spray), resulting in a film thickness of around 6 microns, with one liter covering up to 80 m².

Color Tinting Option for Marine Applications.

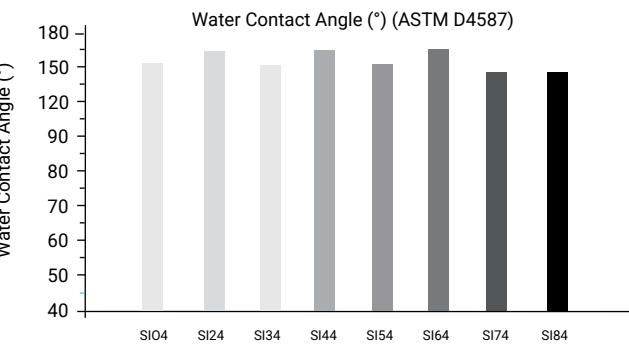
For customized aesthetics, UVA Topcoat can be tinted using our colorants on page 22-23. These high-performance, solvent-free pigments provide long-lasting color stability and UV resistance—perfect for marine environments where both protection and appearance matter. Ideal for yachts, decks, interiors, 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 Topcoat 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
Water vapour permeability	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





APPLY
VIDEO
SCAN
QR CODE



SIO4

1-Component (2K)

Topcoat Transparent for glossy surfaces

Article Nr	: SIO41LUVA 1 L / 920 g SIO405UVA 500 ml / 460 g
Consumption	: 3 layers +/- 34.6 g/m ² - 37.5 ml/m ² 18 micron = 20 m ²
Reachable area	: 2 layers +/- 23.0 g/m ² - 25.0 ml/m ² 12 micron = 40 m ² : 1 layer +/- 11.5 g/m ² - 12.5 ml/m ² 6 micron = 80 m ²
Hardness/Cupping	: H6 / Flexibility ISO 1520 >24mm
Used for	: Epoxy, acrylic, fiberglass, steel, aluminium, carbon,
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
1kg / 80cm



Protects your investment



TEST
REPORT
SCAN QR
CODE



SI24

1-Component (1K)

Topcoat Transparent for matte surfaces

Article Nr	: SI241LUVA 1L / 970 g SI2405UVA 500 ml / 485 g
Consumption	: 3 layers +/- 34.6 g/m ² - 37.5 ml/m ² 18 micron = 20 m ²
Reachable area	: 2 layers +/- 23.0 g/m ² - 25.0 ml/m ² 12 micron = 40 m ² : 1 layer +/- 11.5 g/m ² - 12.5 ml/m ² 6 micron = 80 m ²
Hardness/Cupping	: H6 / Flexibility ISO 1520 >24mm
Used for	: Epoxy, acrylic, fiberglass, steel, aluminium, carbon, 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
1kg / 80cm



Protects your investment



SI34

1-Component (2K)

Topcoat Transparent for glossy surfaces

Article Nr	: SI341LUVA 1 L / 920 g SI3405UVA 500 ml / 460 g
Consumption	: 3 layers +/- 34.6 g/m ² - 37.5 ml/m ² 18 micron = 20 m ²
Reachable area	: 2 layers +/- 23.0 g/m ² - 25.0 ml/m ² 12 micron = 40 m ²
	: 1 layer +/- 11.5 g/m ² - 12.5 ml/m ² 6 micron = 80 m ²
Hardness/Cupping	: H6 / Flexibility ISO 1520 >24mm
Used for	: Epoxy, acrylic, fiberglass, steel, aluminium, carbon, 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 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
Easy to clean**



Anti-scratch



**Impact resistance
1kg / 80cm**



**Protects your
investment**



SI44

1-Component (1K)

Topcoat Transparent for matte surfaces

Article Nr	: SI441LUVA 1L / 970 g SI4405UVA 500 ml / 485 g
Consumption	: 3 layers +/- 34.6 g/m ² - 37.5 ml/m ² 18 micron = 20 m ²
Reachable area	: 2 layers +/- 23.0 g/m ² - 25.0 ml/m ² 12 micron = 40 m ²
	: 1 layer +/- 11.5 g/m ² - 12.5 ml/m ² 6 micron = 80 m ²
Hardness/Cupping	: H6 / Flexibility ISO 1520 >24mm
Used for	: Epoxy, acrylic, fiberglass, steel, aluminium, carbon, 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 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
Easy to clean**



Anti-scratch



**Impact resistance
1kg / 80cm**



**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.



WHITE UVAWH0100
Masstone to Transparent Tint
SI080 **100 ml**



BLACK UVABK0100
Masstone to Transparent Tint
S9938 **100 ml**



YELLOW UVAYE0100
Masstone to Transparent Tint
S2184 **100 ml**



RED UVARD0100
Masstone to Transparent Tint
S4254CN **100 ml**



BLUE UVABL0100
Masstone to Transparent Tint
S5007 **100 ml**



GREEN UVAGR0100
Masstone to Transparent Tint
S7154N **100 ml**



SIX1

2-Component (2K)

Primer Epoxy Polyamide

heavy duty - anti-corrosion

Article Nr: : SIX11250-WH/GR 1.25 L / 1.45 kg SIX15000-WH/GR 5 L / 5.8 kg
Consumption : 2 layers +/- 240 g/m² - 250 ml/m² 80 micron = 5 m²
Reachable area : 1 layer +/- 120 g/m² - 125 ml/m² 40 micron = 10 m²
Hardness : H5
Colors : White, Grey or RAL (RAL Minimum Order 250 pcs 5 L)
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 30°C, 1 hours 60°C.



Fast Repaintable



Excellent adhesion



Heavy Duty Primer - Smooth Surfacer

SIX2

2-Component (2K)

Primer Surfacer Acrylic Alkyd

smooth - surface modifier

Article Nr: : SIX21250-WH/GR 1.25 L / 1.45 kg SIX25000-WH/GR 5 L / 5.8 kg
Consumption : 2 layers +/- 200 g/m² - 210 ml/m² 60 micron = 6 m²
Reachable area : 1 layer +/- 100 g/m² - 105 ml/m² 30 micron = 12 m²
Hardness : H3
Colors : White, Grey
Used on : Steel, aluminium, wood, fiberglass, and old paint systems.
Application area : Buildings, hotels, private housing, etc.

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 30°C, 1 hours 60°C.



Fast Repaintable



Excellent adhesion



SIX3

2-Component (2K)

Primer PU Wood Filler

surface modifier - absorption reducer

Article Nr:	: SIX31500 1.5 L / 1.4 kg
Consumption	: 2 layers +/- 175 g/m ² - 185 ml/m ² 60 micron = 8 m ²
Reachable area	: 1 layer +/- 115 g/m ² - 95 ml/m ² 30 micron = 12 m ²
Hardness	: H4
Colors	: Transparent
Used on	: Wood, Natural Stone, and other organic surfaces
Application area	: Buildings, marine, hotels, private housing, etc.

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%.



Fast Repaintable



Excellent adhesion



Wood or Natural Stone - Filler

SIX4

1-Component (1K)

Primer Acrylic Waterbased

all surfaces modifier

Article Nr	: SIX41000-WH/GR 1 L / 1.2 kg SIX44000-WH/GR 4 L / 4.8 kg
Consumption	: 2 layers +/- 240 g/m ² - 200 ml/m ² 60 micron = 5 m ²
Reachable area	: 1 layer +/- 120 g/m ² - 100 ml/m ² 30 micron = 10 m ²
Hardness	: H3
Colors	: White, Grey or RAL (RAL Minimum Order 250 pcs 4 L)
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



SIX5

2-Component (2K)

Putty Polyester

ultra smooth - sandable

Article Nr : SIX51000-WH/GR 1 kg
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.



Fast Repaintable



Excellent adhesion



SOLV

Thinner solvent

for all types of our ceramic paint & coating

Article Nr : SOLV0400 400 ml / 345 g SOLV2000 2 L / 1.760 g SOLV5000 5 L / 4.400 gr

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 400 ml / 345 g ACCL0200 200 ml / 180 g

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 1.5–2x faster.



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Instructions for use:
 Make sure the surface is free from contamination and dirt.
 A zinc-rich primer can be used in case of problems with the adhesion on its corrosion circumstances. The Primer should pass the ASTM D2238 adhesion test 5.
 Mix SIX51000 (Coating) with RETA0200 (Accelerator) or mix in an exact ratio 50:50 (1:1) using a scale. The surface must be immediately dry before application. Apply all the layer thickness in thickness of approx. 15-20 microns. 2-3 after drying.
 Thickness to be determined by surface porosity.
 Let the surface dry for 24 hours. It is necessary in 1 hour after 24 hours 80% cured and the remaining 10% transformation into completed in fully cured after 7 days. Be aware that the mixed content cannot be stored longer than 3 hours.
 75-80 degrees 2-3 and increase in 1-2 days / 10-15 days.
 Content: 1.8L / 60oz (NET WT. 1.73 kg / 3.8 LBS)

WARNING!
 Flammable liquid
 Irritant
 Harmful to the environment

TDS SDS
 Scan QR Code

2K CERAMIC COATING
 Super Durable Utilizes Nano-Technology
 UV / Chemical / 300°C / 600°F Resistant

Perfect adhesion on:
 Fiberglass, Epoxy
 Aluminium, Steel
 Concrete, Stone,
 Wood, Acrylic, Titanium
Content:
 Color Solvent, PTFE
 Additives, Diisocyanate Acid
Finish: Glossy
Sheen: 91/78 (20-60°)

WARNING: FLAMMABLE - IRRITANT. VAPOR AND SPRAY MOST HARMFUL.
 EXPOSURE MAY CAUSE LUNG DAMAGE, ALLERGIC REACTION OR RESPIRATORY REACTION. HARMFUL TO THE ENVIRONMENT. MAY CAUSE EYE, SKIN, NOSE AND THROAT IRRITATION.

GLOSS **TRANSPARENT / COLORABLE** **TRANSPARENT**



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: 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 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 Topcoat Coat System:

These products can be stored for up to 24 months *(in a dry, temperature-stable dark environment)*

Processing Temperature:
Ambient temperature: 5-30°C
Avoid direct sunlight, Rain and /or high humidity.

IMPORTANT:
Before you use a NANO-CERAMIC product, please make sure you wear suitable 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)

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.

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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