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.

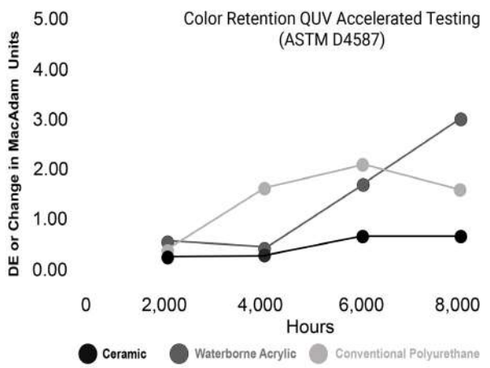
These findings were published in the International Journal of Marine Engineering Innovation and Research. Click here for the IPTEK analyses.

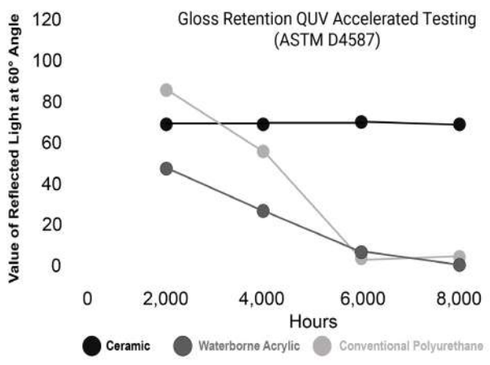
Other paints are simply not suitable for long-term harsh outdoor environments.

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.

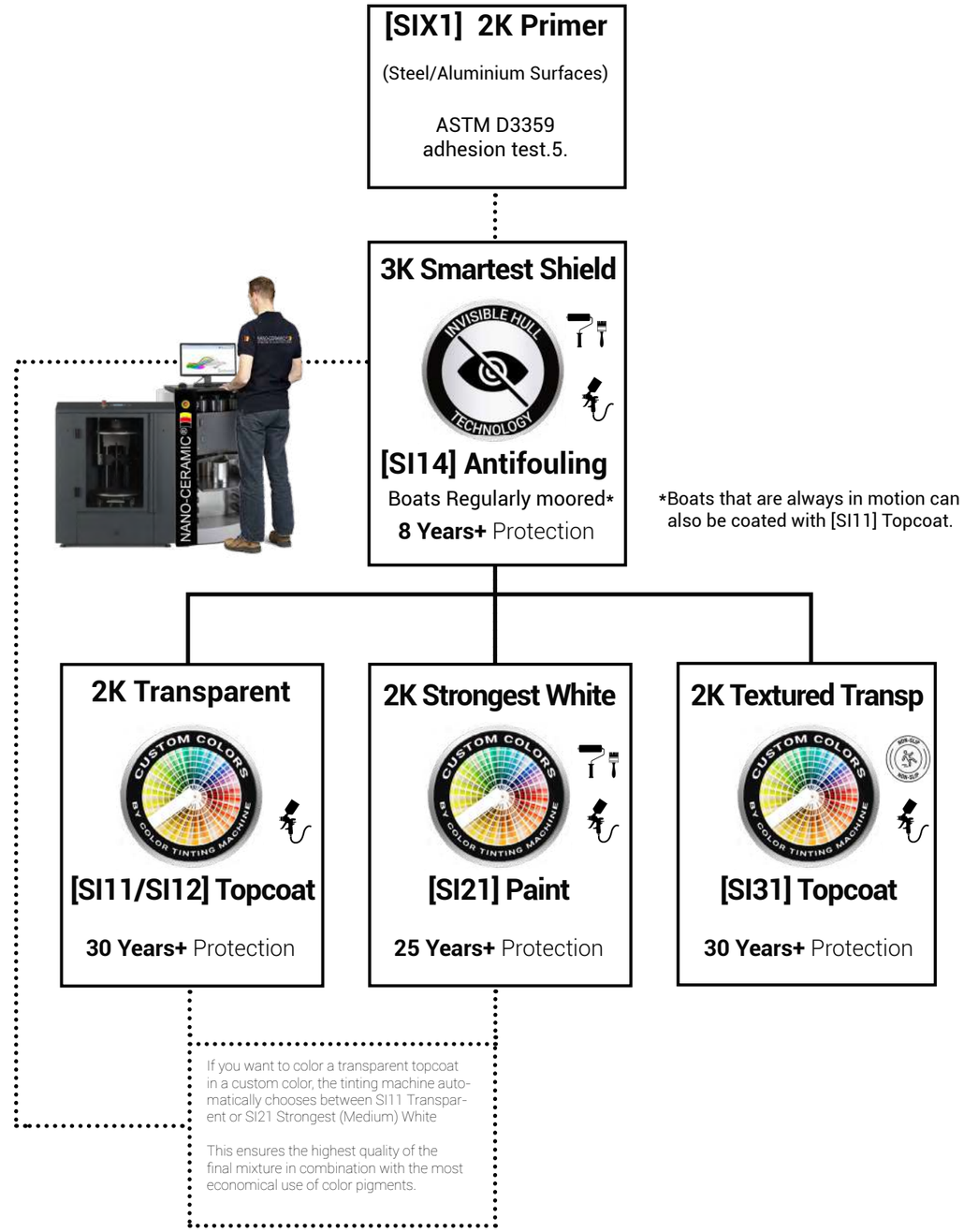
Most have a lifespan of up to 15 years, with hardness, colour and gloss retention (UV fading), as well as manual mixing and inconsistent quality, being among the most common challenges in maintaining surfaces at an aesthetically acceptable level.

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.



APPLY VIDEO SCAN QR CODE

SI11 2-Component (2K)

Topcoat Transparent
for glossy surfaces

Article Nr : SI112000 2 L / 1.900 g

Consumption : 3 layers +/- 270 g /m² - 285 ml/m² 75 micron = 7 m²

Reachable area : 2 layers +/- 180 g /m² - 190 ml/m² 50 micron = 14 m²

: 1 layer +/- 90 g /m² - 95 ml/m² 25 micron = 21 m²

Hardness : H9

Used for : Fiberglass, steel, aluminium, plastics, wood

Application field : Marine, exteriors, interiors

How to use: Page 11+ 32

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

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

TEST REPORT SCAN QR CODE

SI12 2-Component (2K)

Topcoat Transparent
for matte surfaces

Article Nr : SI112000 2 L / 2.000 g

Consumption : 3 layers +/- 270 g /m² - 285 ml/m² 75 micron = 7 m²

Reachable area : 2 layers +/- 180 g /m² - 190 ml/m² 50 micron = 14 m²

: 1 layer +/- 90 g /m² - 95 ml/m² 25 micron = 21 m²

Hardness : H9

Used for : Fiberglass, steel, aluminium, plastics, wood

Application field : Marine, exteriors, interiors

How to use: Page 11 + 32

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

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

SI21 2-Component (2K)

Paint Strongest White
for glossy surfaces

Article Nr : SI212000 2 L / 2.400 g
Consumption : 3 layers +/- 200 g/m² - 165 ml/m² 75 micron = 12 m²
Reachable area : 2 layers +/- 130 g/m² - 110 ml/m² 50 micron = 16 m²
: 1 layer +/- 65 g/m² - 55 ml/m² 25 micron = 24 m²
Hardness : H8
Used for : Fiberglass, steel, aluminium, plastics, wood
Application field : Marine, exteriors, interiors

How to use: Page 11+ 32

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

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)

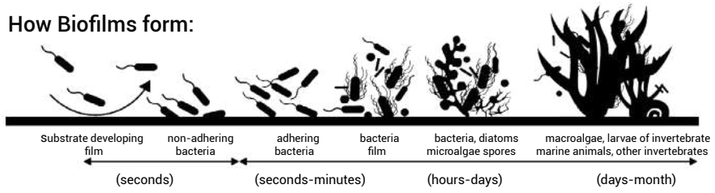
The Smartest Antifouling
black/red/blue/grey/transparent

Article Nr : SI141000-BK-RD-BL-GR 1 L / 1.090 g
: SI144000-BK-RD-BL-GR 4 L / 4.300 g
Consumption : 2 layers 308 g/m² - 286 ml/m² = 200 micron / 14 m²
Reachable area : 1 layer 154 g/m² - 143 ml/m² = 100 micron / 28 m²
Hardness/Viscosity : H7
Used for : Fiberglass, steel, aluminium, plastics, wood
Application field : Marine Antifouling

How to use: Page 11 + 32

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-biocidal 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:



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/m² - 222 ml/m² 90 micron = 9 m²

Reachable area : 2 layers +/- 111 g/m² - 111 ml/m² 60 micron = 18 m²

: 1 layer +/- 74 g/m² - 74 ml/m² 30 micron = 27 m²

Hardness : H9

Used on : Gelcoat, fiberglass, steel, aluminium,

: plastics, wood, virtually any surface.

Application area : Marine, exteriors, interiors

How to use: Page 11+ 32

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

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 addetives

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

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

Other colors need minimal 100 kg

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, 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:

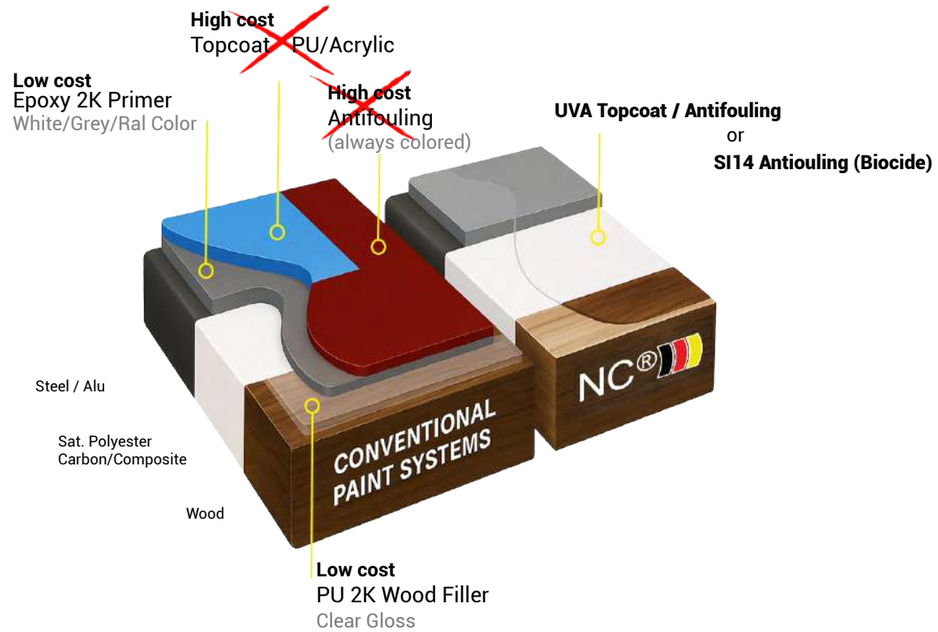
- Yachts & Boats – Hulls, decks, topsides, and superstructures
- Speedboats – UV protection and ultra-slick finish for high-performance watercraft
- Marine Infrastructure – Docks, piers, pontoons, and submerged structures
- Ship Interiors – Tables, countertops, cabins, walls, and decorative panels
-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

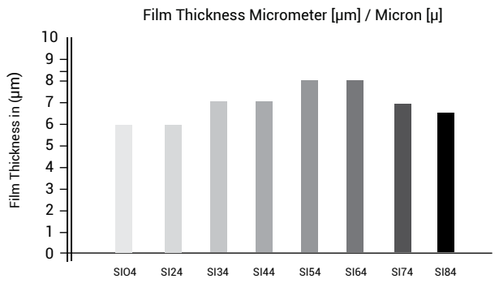
Coverage & Application Efficiency.

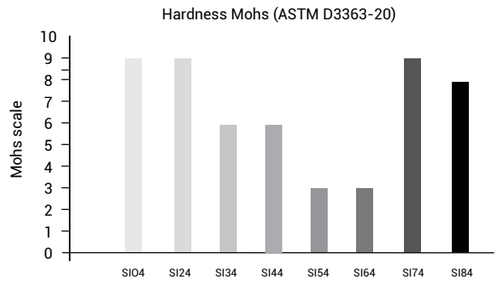
UVA Topcoat is engineered for maximum efficiency with minimal material use—delivering high-performance protection at a fraction of the volume required by traditional coatings.

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.

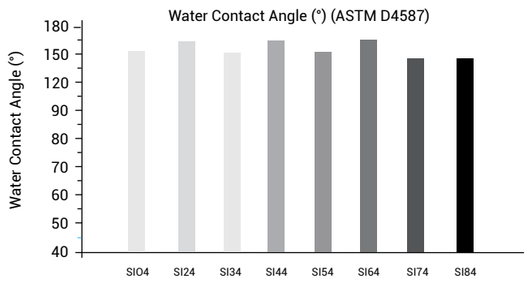




Quality Comparison of paints technologies.

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

How to use: Page 33

Article Nr : SIO41LUVA 1 L / 920 g SIO405UVA 500 ml / 460 g
Consumption : 3 layers +/- 34.6 g/m² - 37.5 ml/m² 18 micron = 20 m²
Reachable area : 2 layers +/- 23.0 g/m² - 25.0 ml/m² 12 micron = 40 m²
: 1 layer +/- 11.5 g/m² - 12.5 ml/m² 6 micron = 80 m²
Hardness/Cupping : H6 / Flexibility ISO 1520 >24mm
Used for : Epoxy, acrylic, fiberglass, steel, aluminium, carbon,
Application field : Marine, exteriors, antifouling. interiors

MaxHard LowFlex

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).

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

How to use: Page 33

Article Nr : SI241LUVA 1L / 970 g SI2405UVA 500 ml / 485 g
Consumption : 3 layers +/- 34.6 g/m² - 37.5 ml/m² 18 micron = 20 m²
Reachable area : 2 layers +/- 23.0 g/m² - 25.0 ml/m² 12 micron = 40 m²
: 1 layer +/- 11.5 g/m² - 12.5 ml/m² 6 micron = 80 m²
Hardness/Cupping : H6 / Flexibility ISO 1520 >24mm
Used for : Epoxy, acrylic, fiberglass, steel, aluminium, carbon, wood
Application field : Marine, exteriors, interiors

MaxHard LowFlex

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).

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

APPLY VIDEO SCAN QR CODE

SI34 1-Component (2K)

Topcoat Transparent
for glossy surfaces

How to use: Page 33

Article Nr : SI341LUVA 1 L / 920 g SI3405UVA 500 ml / 460 g
Consumption : 3 layers +/- 34.6 g/m² - 37.5 ml/m² 18 micron = 20 m²
Reachable area : 2 layers +/- 23.0 g/m² - 25.0 ml/m² 12 micron = 40 m²
: 1 layer +/- 11.5 g/m² - 12.5 ml/m² 6 micron = 80 m²
Hardness/Cupping : H6 / Flexibility ISO 1520 >24mm
Used for : Epoxy, acrylic, fiberglass, steel, aluminium, carbon, wood
Application field : Marine, exteriors, antifouling. interiors

MedHard MedFlex

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).

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

TEST REPORT SCAN QR CODE

SI44 1-Component (1K)

Topcoat Transparent
for matte surfaces

How to use: Page 33

Article Nr : SI441LUVA 1L / 970 g SI4405UVA 500 ml / 485 g
Consumption : 3 layers +/- 34.6 g/m² - 37.5 ml/m² 18 micron = 20 m²
Reachable area : 2 layers +/- 23.0 g/m² - 25.0 ml/m² 12 micron = 40 m²
: 1 layer +/- 11.5 g/m² - 12.5 ml/m² 6 micron = 80 m²
Hardness/Cupping : H6 / Flexibility ISO 1520 >24mm
Used for : Epoxy, acrylic, fiberglass, steel, aluminium, carbon, wood
Application field : Marine, exteriors, interiors

MedHard MedFlex

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).

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

APPLY VIDEO SCAN QR CODE

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

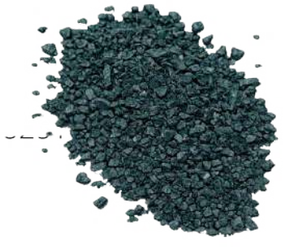
Masstone to Transparent Tint

S4254CN **100 ml**

BLUE UVABL0100

Masstone to Transparent Tint

S5007 **100 ml**



GREEN UVAGR0100

Masstone to Transparent Tint

S7154N **100 ml**

NANO-CERAMIC® THE NEW GENERATION COATINGS **NANO-CERAMIC.COM**

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

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, aluminumin 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.

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.

Fast Repaintable

Excellent adhesion

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.

Heavy Duty Primer - Smooth Surfacer

SIX3 2-Component (2K)

Primer PU Wood Filler
surface modifier - absorbtion reducer

Article Nr.	: SIX31500 1.5 L / 1.4 kg
Consumption	: 2 layers +/- 175 g/m² - 185 ml/m² 60 micron = 8 m²
Reachable area	: 1 layer +/- 115 g/m² - 95 ml/m² 30 micron = 12 m²
Hardness	: H4
Colors	: Transparent
Used on	: Wood, Natural Stone, and other organic surfaces
Application area	: Buildings, marine, hotels, private housing, etc.

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

Article Nr	: SIX41000-WH/GR 1 L / 1.2 kg SIX44000-WH/GR 4 L / 4.8 kg
Consumption	: 2 layers +/- 240 g/m² - 200 ml/m² 60 micron = 5 m²
Reachable area	: 1 layer +/- 120 g/m² - 100 ml/m² 30 micron = 10 m²
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

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

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.

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

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.

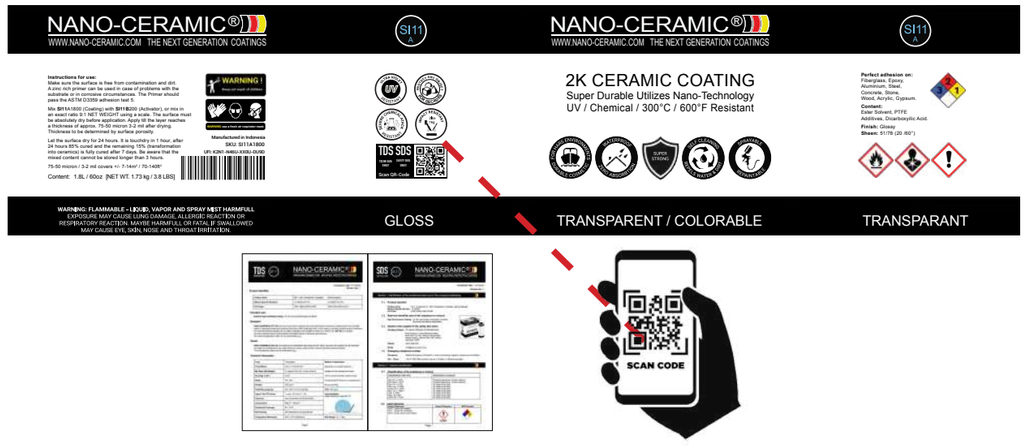
RETA/ACCL Retarder Accelerator

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 1.5–2× faster.

Scan QR Code for TDS and SDS



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.

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.

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)

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.

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:

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)

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