



MARINE COATINGS

WHEN DURABILITY COMES FIRST

### **ABOUT NANO-CERAMIC®**

NANO-CERAMIC® supplies professional-grade barriers that ensure vehicles, watercraft, aircraft, heavy equipment, private homes, and buildings stay in optimal condition for decades.

Many groundbreaking developments, like the introduction of small LED lamps, initially emerged from the Automotive Industry. Today, conventional lighting is nearly absent in public spaces and homes. Similarly, a significant shift toward advanced cleaning aids is taking place. If you're unfamiliar with (Thin Film) Automotive Ceramic Coatings, allow us to introduce them.

In the hospitality industry, where cleaning efficiency is crucial, our comprehensive solution, Clean & Protect, has garnered attention. It simplifies cleaning routines, saving time, and maintains indoor and outdoor surfaces in a pristine state.

Lastly, our latest innovation—Ceramic Coating and Paint—is on the verge of launch. This development from NANO-CERAMIC® is set to become popular not only among architects and property developers but also among industrial users. This permanent coatings system offers exceptional temperature resistance, along with chemical and wear resistance, making it ideal for users seeking durability and easy-to-clean properties.

### If you're interested in collaborating, don't hesitate to give us a call!

We can provide you with all the necessary information with just one click on how to become a Country Importer, a Dealer, or a Jobber.

#### If you're interested in becoming a Country Importer,

At NANO-CERAMIC®, our specialized sales team can guide you through obtaining exclusive territorial rights. We provide comprehensive product training and offer advice on effective strategies for approaching your local customers.

#### If you're interested in becoming a Dealer or Jobber

At NANO-CERAMIC®, we possess all the necessary information to help you kickstart your new business with our products or seamlessly integrate our offerings into your existing business model. We provide clear examples of how you can generate revenue with our products and demonstrate their versatile applications.

#### Craft your profile as we shape ours.

NANO-CERAMIC® is the only company in the world with a comprehensive range of products designed to clean and protect every surface in the most durable manner.



We exclusively supply to professionals, by maintaining our brand uniformity.



Touch, feel and get convinced of our quality, prevent corrosion, and reduce CO2 emissions together with us.

# Are you seeking to take your business to new heights

Our sales team is prepared to collaborate with you to achieve just that.

CEO ANI REZKI ARIDA

#### **PERMANENT** COATING SYSTEM

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 System is rigorously tested by an independent testing laboratory according to the European standard for outdoor paints (EN 1504-2) as mentioned in our separate test report.

# 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, assumed to be due to drag reduction on the ship model, with a value showing a 31% improvement compared to the non-coating and a 27% improvement compared to a conventional anti-fouling coating. Click <a href="here">here</a> for the IPTEK analyses

# Other conventional 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.

#### **Quality Comparison with traditional paints**

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

Characteristics	Acrylic walls	Epoxy floors	Polyurethane waterproofing	CERAMIC® all surfaces
Primer	Yes	Yes	Yes	No
Adhesion Strength	Poor	Poor	Poor	Excellent
Cross Cut Test	Poor	Good	Poor	Excellent
Abrasion Resistance	Poor	Average	Poor	Excellent
UV Radiation Resistance	Average	Poor	Good	Excellent
Artificial Atmospheric Agents	Poor	Good	Good	Excellent
Colour Retention	Average	Poor	Poor	Excellent
Gloss Retention	Poor	Poor	Poor	Excellent
Chemical Resistance	Good	Good	Poor	Excellent
Severe Chemical Attack	Poor	Average	Poor	Excellent
Temperature Resistance	91°C	177°C	263°C	300°C
Thermal Shock Resistance	Good	Poor	Good	Excellent
Carbon Dioxide Permeability	Poor	Good	Poor	Excellent
Permeability water vapour	Average	Good	Average	Excellent
Water Absorption Resistance	1%	2%	3%	0%
Aging at 70°C	Poor	Good	Average	Excellent
Adhesion Strenght Pull-off	Average	Good	Poor	Excellent
Impact Resistance	Average	Good	Poor	Excellent
Anti-Graffiti	No	No	No	Yes
Anti-Termite (Wood)	No	No	No	Yes
Hydrophobic Self Cleaning	No	No	No	Yes
Easy to Clean	No	No	No	Yes
Total Solar Reflectance (TSR)	<b>60</b> (white)	60 (white)	<b>60</b> (white)	88 (white)
Expected Lifetime in Years	<7	<15	<15	30+





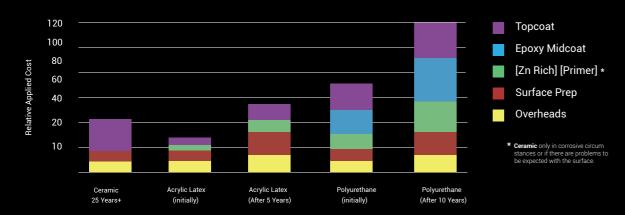


# **CERAMIC** COATING

Ceramic Coating and Paint represent the latest advancements in protective coatings. These utilize a robust matrix of molecular bonds, effectively converting applied paint into a durable ceramic layer. This transformation delivers exceptional scratch resistance and offers near-permanent protection for both interior and exterior surfaces.

The resulting layer ensures complete resistance against water vapor and absorption, preventing dirt from penetrating the coating. Moreover, these coatings boast enhanced features such as superior adhesion, reaching the deepest nano-levels. This heightened adhesion capability allows our paints to firmly bond with all organic materials. In today's challenging climate conditions, strong paint adhesion is vital for long-lasting durability.

#### Nr 1 in Lowest Life Cycle Cost

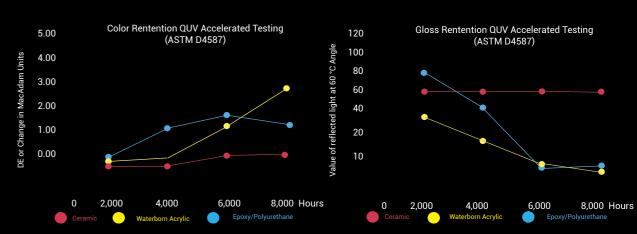


### **CERAMIC PAINT**

For instance, imagine applying ceramic paint or coating to a concrete wall. Upon complete transformation, attempting to remove the paint would result in the concrete breaking first, rather than the paint itself. Furthermore, the treated surface gains a permanent resistance to dirt accumulation, and notably, the paint exhibits exceptional color and gloss retention.

A critical aspect of our commitment to global health lies in our use of polymer-based resins. These resins possess a relatively high molecular weight, which, when reacted and dried, minimizes the risk of leaching into groundwater. Additionally, our Ceramic Coating and Paint contribute significantly to reducing CO2 emissions. Corrosion is a primary driver of CO2 expansion, and our products help mitigate this. You can access the comprehensive independent test report EN 1504-2 on our website for detailed insights.

#### **Nr 1 in Color and Gloss Retention**





NANO-CERAMIC® SI11/SI12 are transparent solvent based anti-scratch weather resistant ceramic coatings that are cross-linked with a ceramic activator, the coatings are available in high gloss or matte. The coatings have an excellent durability and can be applied to any organic substrate without primer. A zinc epoxy primer should be used for steel and aluminum sea going yachts or when there are problems with the substrate to be expected. Primers should meet the adhesion test ASTM D3359.

SI11 can also be used under the waterline for small and high performance vessels who not stay long time in the water. This coating provides less resistance, resulting in higher speeds, more range and a better aesthetic while cleaning and maintenance have never been easier thanks to its permanent hydrophobicity.

These coatings are resistant to temperatures up to 300°C, permanently hydrophobic, repelling water, dirt, dust, and contaminants, and reducing cleaning intervals. The coatings withstand various types of chemicals and UV radiation with superior anti-corrosion properties while having an impact resistance of 1kg/80cm.

The painted surface can even become like glass. You can sand the surface and restore the shine with cerium oxide powder. Both layers (SI11/SI12) can be colored through an automatic dispenser, creating a uniform color setting.





SI11 CLEAR GLOSS





SI12 CLEAR MATTE



NANO-CERAMIC® SI11/SI12 represent transparent solvent-based anti-scratch, weather-resistant ceramic coatings, cross-linked with a ceramic activator, available in high gloss or matte finishes. These coatings boast excellent durability and can be seamlessly applied to any organic substrate, making them particularly suitable for wood finishing applications.

Traditional clear coats fail under UV exposure, especially in tropical climates where yearly repainting becomes necessary, which leads to dryer, weakened, and increasingly absorbing wood after each reapplication. Additionally, conventional clear coats succumb to moisture, resulting in white fading and an easy peel-off.



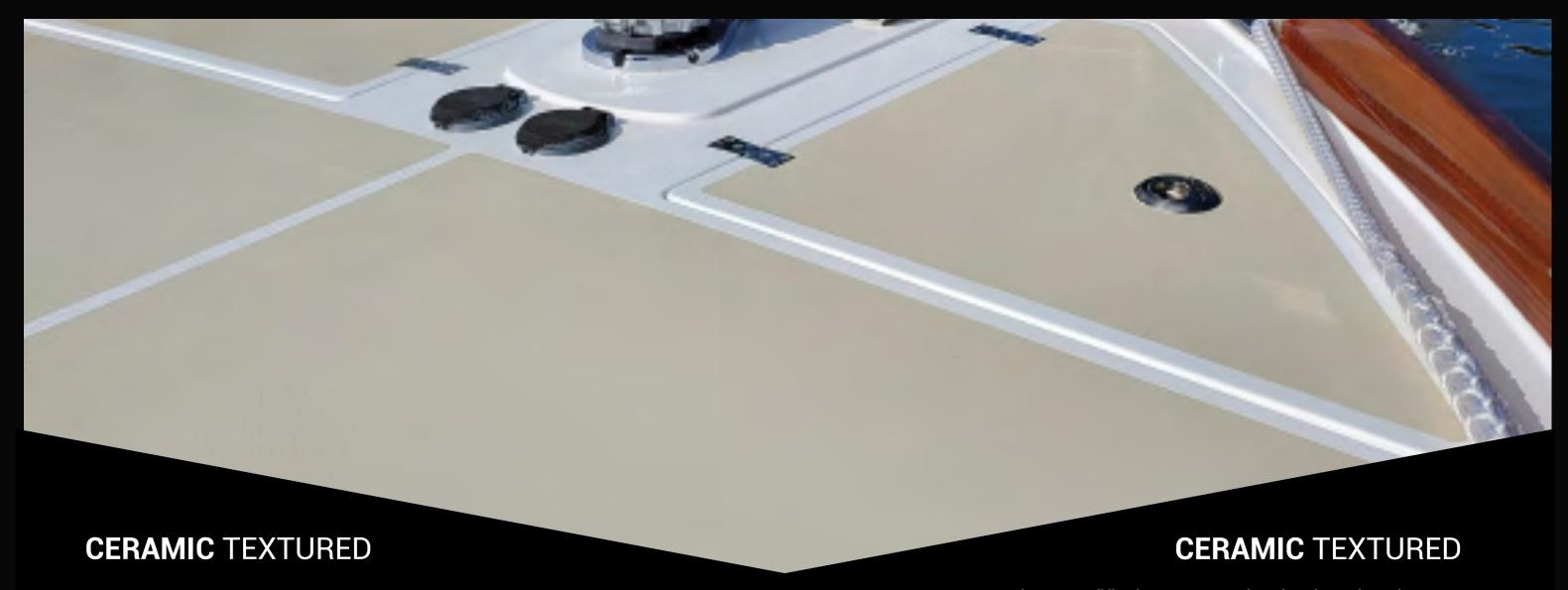


SI11 CLEAR GLOSS In contrast, our coatings are non-absorbent and significantly more resilient. They resist various chemicals, UV radiation, and boast superior anti-corrosion properties, complemented by an impact resistance of 1kg/80cm and with a temperature resistance up to 300°C, they maintain permanent hydrophobicity, effectively repelling water, dirt, dust, and contaminants, thereby reducing refurbishing needs.

For wood applications, these coatings offer versatile application techniques like brush, roller or spray gun. Moreover, both SI11 and SI12 coatings can be colorized manually or via an automatic dispenser, using our special selected colorants enabling the creation of various wood color finishes with ease.



SI12 CLEAR MATTE



NANO-CERAMIC® 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. This high impact resistance coating not only withstands temperatures up to 300°C but also remains permanently hydrophobic, warding off water, dirt, dust, and pollutants, reducing cleaning needs. Moreover, it shows resilience against various chemicals and UV radiation, displaying superior anti-corrosion abilities and an impressive impact resistance of 1kg/80cm.

Its standout feature? Effortless colorization via an automatic dispenser, ensuring a consistently even color for every application. Beyond protection, its textured design offers a versatile solution, serving multiple surface treatment purposes.





SI31 CLEAR SEMI GLOSS TEXTURED NANO-CERAMIC® SI35, the younger sibling, is a transparent solvent-based ceramic coating, a one-component self-cure version. This coating boasts a nearly invisible, flat finish appearance and contains sprayable nano particles. With excellent durability, it can be applied effortlessly to any organic surface without a primer. Its flat profile makes it an ideal choice for raw concrete structures, preserving their natural appearance while providing superior protection against rain and moisture. Moreover, this coating doubles as an anti-slip solution. Resistant to temperatures up to 300°C, it remains permanently hydrophobic, effectively repelling water, dirt, dust, and contaminants, thus reducing cleaning needs. It showcases resistance against chemicals and UV radiation, featuring superior anti-corrosion properties, alongside an impressive impact resistance of 1kg/80cm.



SI35 CLEAR FLAT MATTE TEXTURED



NANO-CERAMIC® SI11/SI12 stands as the epitome of excellence among transparent solvent-based ceramic coatings. These transparent coatings, meticulously cross-linked with a ceramic activator, provide a choice between high gloss or matte finishes, known widely for their unparalleled durability and seamless adhesion to any organic substrate without necessitating a primer.

Their remarkable resilience isn't just skin-deep. With an ability to endure temperatures up to 300°C, these coatings establish a permanent shield against moisture and contaminants, maintaining a clean surface with minimal effort. Versatile and robust, they defy all chemical aggressors and UV exposure, exhibiting superior anti-corrosive properties, complemented by an impressive impact resistance of 1kg/80cm, ensuring enduring protection in various environments.



SI21 WHITE GLOSS



SI11 CLEAR GLOSS

NANO-CERAMIC® coatings, like SI21/22 in medium gloss and satin white, along with SI11/12 in transparent gloss and transparent matte, offer a unique advantage—they can be layered to create a glossy or satin matte porcelain effect, something only our coatings can do.

These coatings have some impressive features: they can withstand chemical attacks, including exposure to strong acids like Hydrofluoric acid (HF), Hydrochloric acid (HCl), Hydroxycitric acid (HCA), and many other weaker chemicals. They're permanently hydrophobic, repelling water, dirt, and contaminants, which means less cleaning. Not only that, they resist chemicals and UV radiation, providing excellent anti-corrosion properties and can withstand an impact of 1kg/80cm.





SI22 WHITE SATIN



SI12 CLEAR MATTE



Our revolutionary High-Tech SI14 Ceramic Antifouling Paint features a self-polishing amphiphilic biofilm that safeguards boat hull surfaces against marine organisms.

This top-tier antifouling coating stores more and releases fewer non-biocidal agents, extending its maintenance interval to over 8 years. SI14 creates a surface with reduced resistance, enhanced fuel efficiency and enables higher speeds. Additionally, we are the sole company worldwide offering this product in transparent color as well as in traditional colors like black, red, blue, and grey.





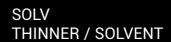


SI14 TRANSPARENT/BLACK/RED/BLUE/GREY ANTIFOULING

NANO-CERAMIC®: All our paints and coatings come ready for use. In some spray applications, a small amount of our SOLV Thinner/Solvent might enhance flowability for optimal results.

For larger surface spraying, our RETA retarder can extend the flash time. Conversely, our ACCL Accelerator can be added to expedite the curing process.







RETA RETARDER



ACCL ACCELERATOR

# **COLOR** MIXING EQUIPMENT

## **COLOR MIXING COLORANTS**

Color mixing has never been so easy!!!

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

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



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

Users 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



**Titanium White** Masstone 844-0061 **1.05gal** 



Quinacridone Red Masstone | 844-0451 **32oz** 



Scarlet Red Masstone Tint 844-0526 **32oz** 



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



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



















Lead Free Med Yellow

Masstone |

844-2555 **32oz** 





Yelllow

844-2826 **32oz** 

Tint

















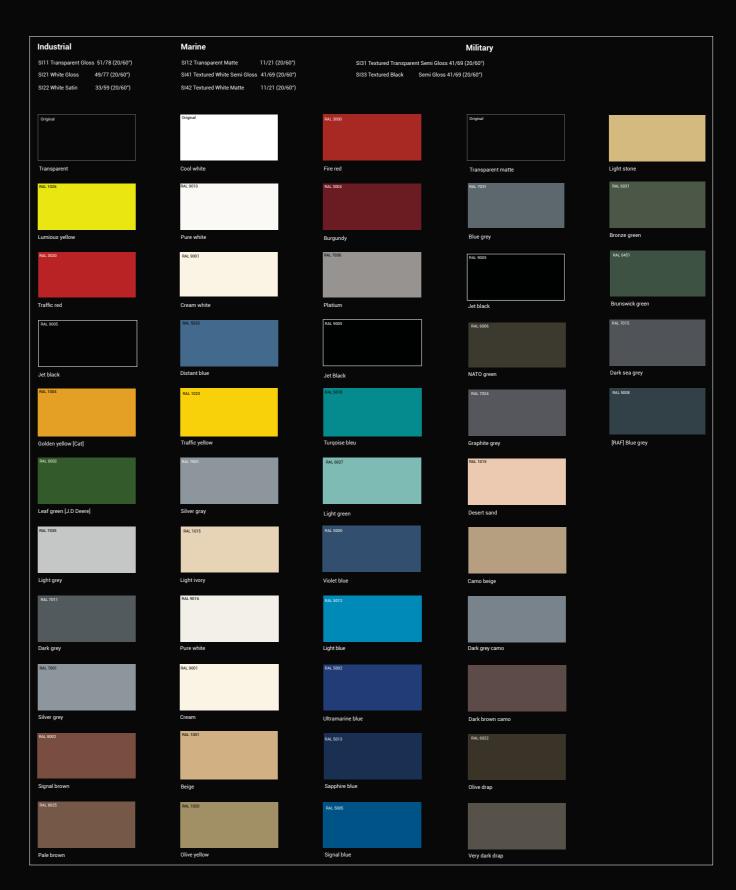




# **COLOR** CARD







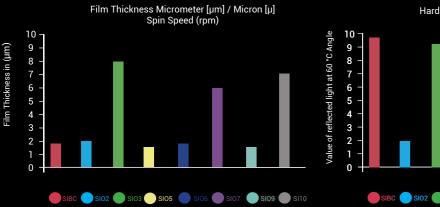


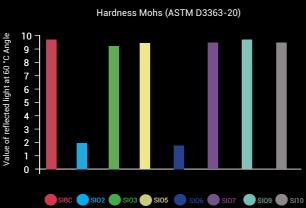


Although the name Ceramic Coating or Polydimethylsiloxanes (PDMS) is already widely known among jobbers and consumers, coating on higher chemical platforms such as (Thin Film) Ceramic Coating based on cross-linked silicon-nitrogen polymers and ceramics derived from reactions of dichlorosilane with ammonia is not yet well understood.

There are many different ceramic coatings on the market today, but not all of these coatings are the same. The ingredients to make a high-tech layer are expensive and due to competition, some more competitive layers are made with fewer ingredients to achieve lower costs. We manufacture our coatings using the highest chemical platforms available today.

#### Nr 1 in Hardness



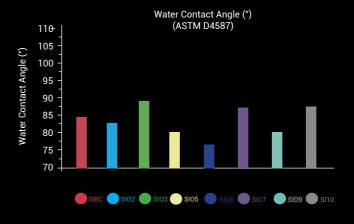


Sometimes jobbers indicate to provide multiple layers of protection. Keep in mind that this factor does not guarantee durability. Our coatings are especially developed towards maximum hardness without loosing the self cleaning properties. Hardness is most important factor against wear and tear.

NANO-CERAMIC is therefore well known in the market as the Leader in Durability and are sold through professional parties only.

Next to that our coatings are continuously tested on abrasion and wear according to ASTM D4060 and ASTM D4587 and are produced in accordance with the EU/ECHA/USA/OHSA-CANADA WHIMS Regulations

#### **Nr 1 in Abrasive Wear Resistance**



















This Thin Film ceramic coating is designed to seal the pores of Glass & Mirrors and is also applicable to acrylic surfaces. With a hardness of 2H (2 microns), this coating offers temperature resistance up to 850°C It's hydrophobic, repelling water, dirt, dust, and contaminants, thereby reducing your daily cleaning needs. It promotes cleaner surfaces, reducing bacteria and virus presence, and is resistant to various chemicals while being food safe.

This is a diffferent Thin Film ceramic coating suitable for shiny tiles, chrome, ceramics, toilet seats, and covers, boasting a hardness of 9H (6 microns). This coating excels in chemical resistance, withstanding strong acids like Hydrofluoric acid (HF), Hydrochloric acid (HCI), Hydroxycitric acid (HCA), and many other weaker chemicals.





SIO6 CLEAR GLASS & MIRROR

The coating offers exceptional features, with temperature resistance up to 850°C, making it hydrophobic and repellent to water, dirt, dust, and contaminants, reducing your daily cleaning needs. This feature promotes cleaner surfaces with fewer bacteria and viruses. Additionally, it withstands chemical attacks, including exposure to strong acids like Hydrofluoric acid (HF), Hydrochloric acid (HCI), Hydroxycitric acid (HCA), and various weaker chemicals. The coating demonstrates resistance to all types of chemicals and UV radiation, boasting superior anti-corrosion properties, and is certified food safe.

NANO-CERAMIC® SIO9 stands out as one of our thinnest Thin Film ceramic coatings, ideal for matte stones, tiles, or other matte surfaces. With a hardness of 9H (2.5 microns), it requires surfaces to be clean and sterile before application.



SIO7 CLEAR SHINY TILE & CHROME



TOROPHOBICITY

MATCH VIDEO

SIO9 CLEAR MATTE STONE & TILE

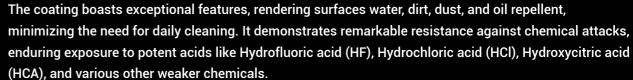


NANO-CERAMIC® SI10 is a Thin Film ceramic coating designed to seal the pores of stainless steel surfaces. Maintaining the shine and cleanliness of stainless steel often requires significant effort. However, with a one-time application of SI10, fingerprints and oil become easily removable. This coating not only promotes surfaces with fewer bacteria and viruses but also ensures food safety, a critical concern for human health. Our coatings are certified food-safe; you can find the Registar Corp's review regarding food contact available for download on our website. Additionally, SI10 can be applied to other surfaces like glossy painted kitchen panels, metal, or plastic handles. Its temperature resistance up to 850°C allows for application on gas, electric, or induction cooktops





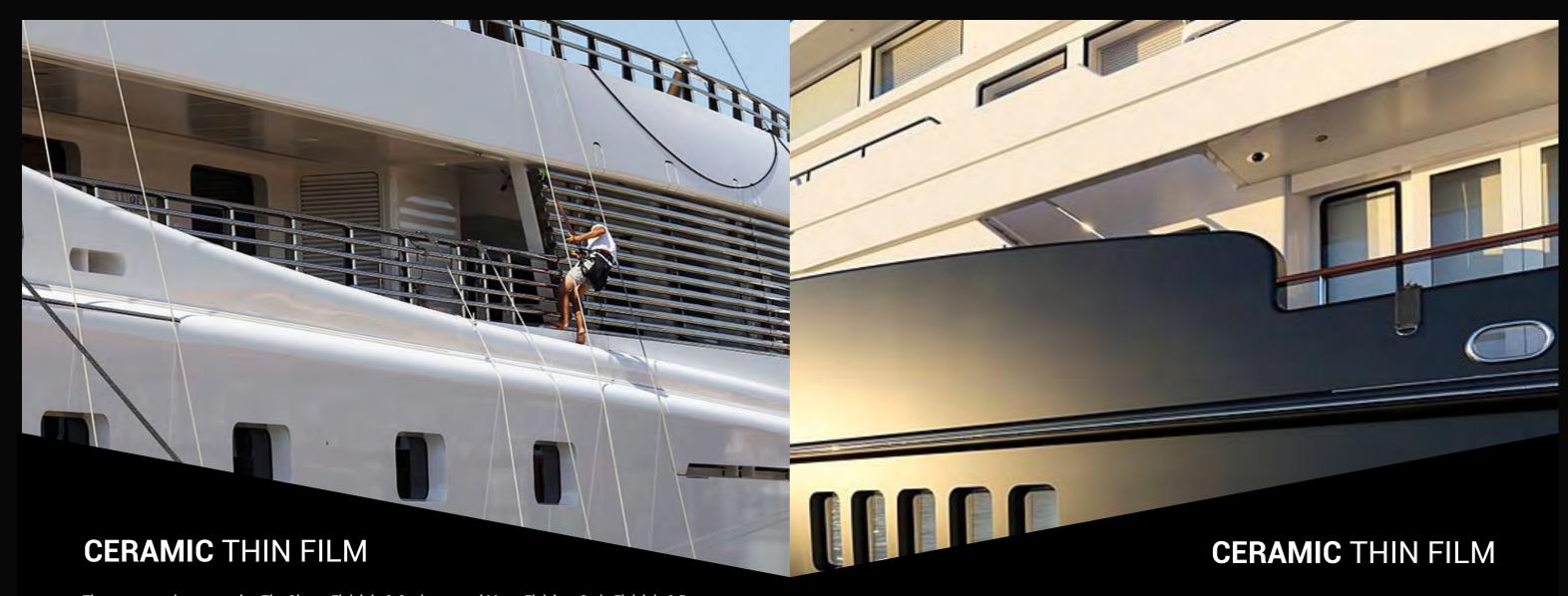
SI10 CLEAR STAINLESS & PANEL



Moreover, with a hardness rating of 9H (6 microns), the coated surfaces become highly scratch-resistant, maintaining a pristine appearance over time. Elevators, known for their vulnerability to scratches, greatly benefit from this protective layer. Prior to application, it's essential to ensure that the surface is clean and sterile.







These two coatings are polar; The Glossy Finish is 6-8 microns and Matte Finish or Satin Finish is 2.5 microns thick, both are two high-performance thin coatings carefully designed for painted surfaces. Typically, Paints have a lifespan of up to 10 years, which can be extended to 15 years with premium PVDF coating. However, in all cases prolonged exposure results in color fading and loss of original luster over time, as shown by a 2015 American Paint Association study conducted by Arkema's Kurt Wood, through 20 years of weather testing in Florida (click here) for more the information.

It is important to note that our thin coating can only be applied if the existing surface coating is in good condition (not brittle). Waiting for this moment may result in costly repainting face coating is still in good condition (non-brittle). Waiting until this point could result in costly repaints.

Our Thin Film Coatings can be applied easily with a simple 'clean and wipe' method they not only restore the surface's original luster but also offer enhanced UV protection, boasting an impressive 9H hardness to resist micro-scratches. NANO-CERAMIC® Thin Film Coatings significantly extend the lifetime of painted surfaces by an additional 15-25 years or more, owing to their user-friendly application and reapplication for continuous protection.

Moreover, these coatings demonstrate temperature resistance up to 850°C effectively repelling water, dirt, dust, and contaminants, thereby reducing cleaning and maintenance expenses. This level of protection not only preserves aesthetic appeal but also enhances customer attraction, ensuring a secure investment.





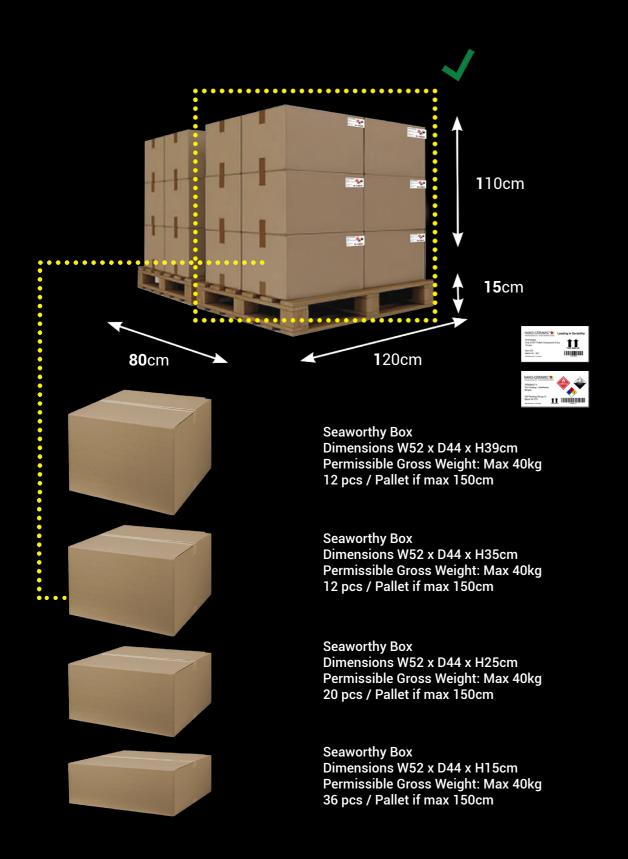
SI17 CLEAR GLOSSY FINISH



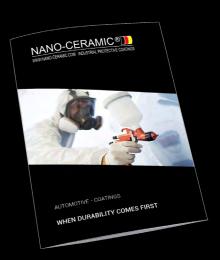
SI19 CLEAR MATTE FINISH



PALLETIZE AND LABEL OTHER SEGMENTS



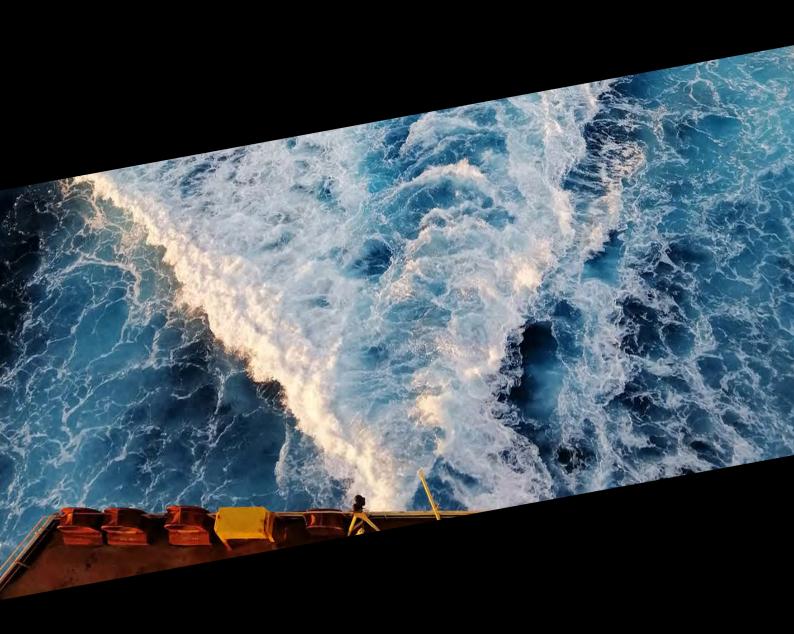












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