Clean & Protect
What is NANO-CERAMIC Thin Film Coating?

NANO-CERAMIC is a revolutionary, ultra-durable, thin film ceramic clear-coating that provides superior scratchresistance and semi-permanent protection for all exterior and interior yacht surfaces.

What makes NANO-CERAMIC Thin Film Coating so different?

NANO-CERAMIC is more than 4 times stronger than factory paint finishes and can absorb damage that would otherwise affect the appearance and integrity of your paint. This extremely durable ceramic coating reduces swirl marks and light scratches while protecting and preserving factory paint.

Conventional paints like acrylic urethane are simply not strong enough.

NANO-CERAMIC is completely resistant to acidic environmental substances like bird droppings, bug residue, acid rain, and tree sap, unlike your vehicle's factory paint, which can be permanently etched and damaged by these substances. NANO-CERAMIC provides advanced protective barriers to your train body and hull surfaces, maintaining both high-gloss and matte finishes.
What are the benefits of applying NANO-CERAMIC Thin Film Coating?

NANO-CERAMIC provides trains with a superior, near-permanent, clear coating that is resistant to chemical etching, harder than factory paint finishes, and able to greatly reduce swirl marks and fine scratches while leaving a superior, hydrophobic surface that is easier to clean and stays cleaner longer.

Clearcoat, Glass hull and body materials can be treated with one of our CERAMIC Restore the color and shine with advanced hydrophobic and UV protection. Even chrome, aluminum, and other metals can have added protection, as our coatings can withstand temperatures of over 850°C.

**Step 1** The surface layer of factory gelcoat is damaged and contaminated.

**Step 2** Decontamination and polishing the gelcoat to produce a smooth and even surface.

**Step 3** Restoration of coating thickness with a super-durable layer of NANO-CERAMIC.
What is NANO-CERAMIC Permanent Coating?

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 or interior surfaces. NANO-CERAMIC permanent coating is 300°C resistant and more than 6 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 3 decades to come!

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

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

The NANO-CERAMIC permanent coating 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 self-cleaning?

NANO-CERAMIC permanent coating 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 is resistant to water vapor and water absorption.
There is no better option than protecting your trains with a NANO-CERAMIC Thin Film or Permanent Coating!

Do not wait till the surface get worse, most easy is to apply wipe or spray when the surfaces are still in new or in nearly new condition and the cost do not outweigh the benefits.

Cross Section of Coating System

Conventional paints

Conventional gelcoats are a mixture with Epoxy or polyester resins, of which the quality of resin and pigments are the most important factor in the ultimate strength. Most have a lifespan of 15 years, with hardness and color retention (sun fading) being the most common problems in keeping the desired object at an aesthetically pleasing level.
Thin Film Protection Plan for Trains

- **SIO5 Max**
  - Matte/Mirror Gloss
  - 5-Year Protection
  - Hydrophobic Scratch-Resistant H9+++

- **SIO2**
  - Safety Vision
  - WINDSHIELD COATING
  - (INCLUDED FREE)

- **SIBC**
  - Gorilla Basecoat
  - Non-Hydrophobic Semi Permanent Protection H9+++ Clearcoat Hardener

- **SIO3 Max**
  - Ultra Wet Look Gloss
  - 5-Year Protection
  - Hydrophobic Scratch-resistant H9++

- **SIO2**
  - Safety Vision
  - WINDSHIELD COATING
  - (INCLUDED FREE)

- **SIRP**
  - Windshield Maintenance
  - 3-MONTH CYCLE

- **SIFX**
  - Sealer
  - Fabrics & Leather

- **SIFP**
  - Ceramic Wax Teak Floors

- **SIO8**
  - Sealer
  - Teak Floors

- **SHRE**
  - Pure Shine Shampoo
Permanent Coating Protection Plan for Trains

SI11 Gloss
SI12 Matte
Transparent
Sprayable
2-Component
30 Years+ Protection
Permanent
Hydrophobic
Scratch-resistant
H9++

SIRP
Windshield
Maintenance
3-MONTH CYCLE

SHRE Pure Shine Shampoo

MPCL Multi Purpose Interior Cleaner
SIO3 MAX GLOSS

Body & Windshield Protection
Clearcoat & Glass

Product ID : SIO3150-MAX-GLOSS 3x1.7oz 10 Micron
Consumption : +/- 2 ml/m²
Reachable area : +/- 25m² Body + 25m² Windshield
Used for : Clearcoat, acrylic, glass, chrome, stainless
Application field : Public Transport

Your Fleet will stand out! These Kit-Sets contain all to make trucks and buses protected with a High-Tech ceramic layer.

• Two simple steps: Clean with our Steril Cleaner and Apply
• The original surface is protected against corrosion.
• Makes the surface anti-scratch, much easier and quicker to clean, and the adhesion of dirt is reduced drastically.
• Promotes more hygienic surfaces.

This coating has an outstanding hydrophobic effect, and the surface stays cleaner longer. Cleaning intervals as well as the formation of water spots will be greatly reduced.

Lasts for 5 Years+ (2 Years on Glass)
SI05 MAX MATTE

Body & Windshield Protection
Clearcoat & Glass

Product ID: SIO5150-MAX-MATTE 3x1.7oz 5 Micron
Consumption: +/- 2 ml/m²
Reachable area: +/- 25m² Body + 25m² Windshield
Used for: Clearcoat, acrylic, glass, chrome, stainless
Application field: Public Transport

Your Fleet will stand out! These Kit-Sets contain all to make trucks and busses protected with a High-Tech ceramic layer.

- Two simple steps: Clean with our Steril Cleaner and Apply
- The original surface is protected against corrosion.
- Makes the surface anti scratch, much easier and quicker to clean, and the adhesion of dirt is reduced drastically.
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Lasts for 5 Years+ (2 Years on Glass)

How to use: Page 18

- Easy to apply
- Cut cleaning costs
- Anti-water spot
- Anti-corrosion
- Super hydrophobic
- Self-cleaning stays cleaner longer
- Anti-scratch
- Anti-fingerprint
- Visibility safety
- Protects your investment

Applicator:
SI11 2-Component (2K)

Ceramic Coating Transparent for Glossy surfaces

Product ID: SI11000 1L / 1.050 gr
              SI112500 2.5L / 2.600 gr
Spray Thickness: Body 50-75 micron, Trailer 100-150 micron
Reachable area: 1.050 gr Body +/- 10m² Trailer 5m²
Used for: Clearcoat, steel, chrome, plastics
Application field: Public Transport

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 permanent hydrophobic.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C.

Will last permanently for up to 30 years+.
SI12 2-Component (2K)

Ceramic Coating Transparent for Matte surfaces

Product ID : SI121000  1L / 1.050 gr
SprayThickness : Body 50-75 micron, Trailer 100-150 micron
Reachable area : 1.050 gr Body +/- 10m² Trailer 5m²
Used for : Clearcoat, steel, chrome, plastics
Application field : Public Transport

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 permanent hydrophobic.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C.

Will last permanently for up to 30 years+.
STEP

One Step Polish

Product ID : STEP0250 250ml
Consumption : 5ml/m²
Used for : Clearcoat, gelcoat, glass and acrylic
Application field : Public Transport

Only this High Quality Polish Compound together with the recommended pads assure that every yacht can be polished from deep scratches till high gloss/zero swirl in one single step.

This saves an enormous amount on working hours as polishing takes normally 65% of the total process to make a yacht a thin film nano layer.

Purple Wool Heavy Cutting Pad cuts like natural sheepskin but finishes like a polish pad. Aggressively removes P1500 grit scratches, leaving a lustrous finish with no hazing by reducing compounding swirls.

The Cutting Pad is constructed with a blue foam and white microfiber. The Micro Cutting Pad with orange foam and white microfiber, the Polishing Pad is constructed with a black foam and black microfiber.

The pad serie is available 5.5 inch and 3 inch.
CLEAN

Steril Cleaner
Hard Surfaces

Product ID : CLEAN0500 500ml / CLEAN5000 5L
               CLEAN020L 20L
Consumption : +/- 3.3 ml/m²
Used for    : Clearcoat, gelcoat, glass, chrome, mirrors
Application field : Public Transport

100% Steril with nano interlock technology (active lifting encapsulate the grease from the surface)

- Surface cleaning and residue removal.
- Cleaning gloves, notebooks, phones or any other item entering the cleanroom.
- Wipe down for pass-through to controlled environments.
- Pretreatment for the application of thin film coating

100% Steril
Scrub Pretreatment Cleaner is a smooth rubbing compound, suitable for scrubbing glass, steel, porcelain and many other materials without scratching the surface.

If you need more scouring power, then please use our specially designed scrub pad.

Leaves no scratches behind after treatment
SIRP

Repellent Protector
Glass / Ceramics / Mirrors

Product ID : SIRP0500 500ml  SIRP5000 5L
             SIRP020L  20L

Consumption : +/- 2 ml/m²

Used for : Glass, acrylic, aluminium chrome, vinyl

Application field : Public Transport

SIRP is an ultra long-lasting invisible surface coating which forms semi-permanent molecular bonds with the surface. The main function of treating hard surfaces with SIRP is to seal tiny pores, making it a smoother surface that will repel water and contaminants. This product is indispensable for bathrooms

- Two simple steps: Clean with our Steril Cleaner and Apply
- Makes the surface much easier and quicker to clean, and the adhesion of dirt is reduced drastically.
- Promotes more hygienic surfaces
- This coating has an outstanding hydrophobic effect, and the surface stays cleaner longer. Cleaning intervals as well as the formation of water spots will be greatly reduced.

Will last 12 washes

How to use: Page 18
MPCL

Multi Purpose Cleaner
All Interior Surfaces

Product ID: MPCL0500 500 ml / MPCL5000 5L
MPCL020L 20L

Consumption: +/- 2.5 ml/m²

Used for: Cleaning all interior surfaces

Application field: Public Transport

The All-Purpose Cleaner is a fast, all-surface interior cleaner, low foaming, odor free, and especially suitable for removing stubborn stains from carpets, fabrics, vinyl, plastics and leather safely.

- It is very easy to clean dirt.
- Ready-to-use mixture with the right chemical strength and safe to use
- Of course it is safe for the surface of fabrics, carpets, plastics, leather, rubber and does not fade paint.
- Quickly remove dirt, dust and food scraps

Safe to use does not harm the surface

Easy to apply
- spray & wipe

No discoloration

Indoor
- Outdoor

Quick to use

Spils are easy
to remove

Cleaner for longer

Aplikator:
Reactivating Pure Shine Shampoo is an advanced technology, multi-purpose foaming cleaner containing a rinsing aid that will leave hard surfaces nearly dry after rinsing with clean water.

To assure the "easy-to-clean" effect that our nano layers provide, surfaces should be free of dyes, waxes or polymer sealants.

This multi-purpose cleaner contains no polymers or colors and will not leave a film of chemicals behind on the surface.

100% Safe to use for cleaning all non-porous surfaces and meets food grade classification for kitchens.

Contains no colouring chemicals which can discolor surfaces.

Dilution ratio 1: 500  (super economical)
HOW TO USE:
NANO-CERAMIC SIRP-SI03-SI05 MAX Thin film coatings

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

Ambient temperature:
5-30° C - Avoid direct sunlight and/or high air humidity.

CLEANING
Clean the surface thoroughly with our Steril Cleaner until it is absolutely clean. If necessary, use our Scrub Cleaner or Reactivating Pure Shine Shampoo in advance. Make sure that all contamination is removed so that the glass coating can bind properly onto a clean surface. Make sure that the surface is completely dry before application!

APPLICATION OF SIRP
Spray a layer of nano SIRP on the surface and rub it in with a dry microtowel, keep rubbing it into the surface with strong pressure and wipe until all the product is even and scrubbed and only a little hazing / residue is visible gently wipe off this hazing / residue with a clean microfiber cloth after about a minute There is only a little pressure needed to remove the hazing completely. Curing time 1 hour.

APPLICATION OF SI03-SI05-MAX
Our coatings have best results on new on almost like new surfaces, we recommend to polish the surface if needed. Wear nitril gloves to clean the surface with our Steril Pretreatment Cleaner. (without wearing gloves, the oil from your hands may appear via the towel onto the surface) !!
Use more than one clean cloth to remove the dirt from the surface. (Please make sure you don’t brush the dirt around on the surface by using dirty clothes.) Making the cleargray-chrome-glass-surface clean is the most important issue. If the surface is not super steril than you will experience chemical reactions between our coatings and the still available contamination what is then visible into the ceramic layer when it is cured. In that case you will need to polish the surface again. So please don’t hurry in carrying out this preparation work, but instead focus on this for 100%.
Learn the right application technique > Watch and Study the Apply Video scanning the QR Code on this page or on the packaging

(fragment BASE COAT)
Use nitril gloves! Remove the plastic inner closure from the bottle and put in the dripper. Shake bottle before use! We recommend to apply the surface in easy to handle segments of about 15”x 15”inch, following the panels shape and corner lines and use these lines for overlaps. Put 8-10 drops BASE COAT on the suede mini towel using the applicator block underneath, devide the coating properly by going 3 times over the same surface, wait till it lights up (+/- 25sec) and remove the residue carefully, and buff it lightly use a separate micro towel for this. Wait 2 hours before you continue with the application of one of our hydrophobic Top Coatings. After 2 hours BASE COAT is 80% cured and ready to receive one of our TOP COATINGS. After about 7 days the BASE COATING has been fully cured and is almost unremovable.
(fragment TOP COAT SIO3-SIO5-MAX)

Use nitril gloves! Remove the plastic inner closure from the bottle and put in the dripper. Shake the bottle before use! We recommend to apply the surface in easy to handle segments following the panel shape and corner lines and use these lines for overlaps. Put 6-8 drops 15”x 15”inch, (if start use more drops as the towel is otherwise too dry) TOP COATING on the suede mini towel using the applicator block underneath. Start dividing it from out of the middle of the surface and keep spreading it around by light pressure in criss-cross motions until the product is evenly distributed. MOST IMPORTANT keep on doing this till no product residue is visible anymore. If you use too much coating and/or spreading it out from example one start position in a corner of a panel then you will not be able to divide it properly towards the other side and it will roll-up on each other and form a not equal layer. To use too much coating and not divide it equally is the second most critical point!! When you apply TOP COATING in this correct way, then there is no need to use a micro towel for polishing anymore.

(fragment SAFETY VISION)

Apply the nano layer SAFETY VISION COATING with the cotton apply pad. Spread 10-15 drops 20”x 25”inch of SAFETY VISION COATING on the cotton pad and apply rubb it in motions on the windshield with firm pressure until all of the product is evenly distributed and only very little residue is visible. Remove the coating residue with a soft clean microfiber cloth after about a minute and buff the glass/panels gently to take the veils away. There is not much pressure necessary to remove it completely. Note: dry the dripper and close the bottles tightly if you want to save the content for future use. At normal ambient temperature the Nano layers are sufficiently cured after approximately 6 hours (or 2 hours Infrared) (avoid water contact during this time).

MSDS (Safety Data) SGS (Test Reports)
SI11 2-Component (2K)

Ceramic Coating Transparent
for Glossy surfaces

Product ID:  SI111000  1L / 1.050 gr  
SI112500  2.5L / 2.600 gr

Spray Thickness:  50-200 micron,  
Reachable area:  1.050 gr Body +/- 10m²

Used for:  Concrete, steel, wood, acrylic, gypsum
Application field:  Buildings, airports, offshore structures, bridges

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 permanent hydrophobic.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C.

Will last permanently for up to 30 years+.
SI12 2-Component (2K)

Ceramic Coating Transparent for Matte surfaces

Product ID : SI121000 1L / 1.050 gr
SprayThickness : 50-200 micron,
Reachable area : 1.050 gr Body +/- 10m²
Used for : Concrete, steel, wood, acrylic, gypsum
Application field : Buildings, airports, offshore structures, bridges

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 permanent hydrophobic.
• Restores damaged finishes and reduces cleaning intervals.
• Resistant to all kinds of chemicals and UV radiation.
• Superior anti-pollution and anti-corrosion properties.
• This coating can withstand temperatures of 300°C.

Will last permanently for up to 30 years+.
### SI13 2-Component (2K)

Ceramic Paint Coolest White
for all types of surfaces

<table>
<thead>
<tr>
<th>Product ID</th>
<th>SI132500 2.5L / 5.000gr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>30</td>
</tr>
<tr>
<td>Hardness</td>
<td>H8</td>
</tr>
<tr>
<td>Spray Thickness</td>
<td>150-200 micron</td>
</tr>
<tr>
<td>Reachable area</td>
<td>5.000 gr Body +/- 18m²</td>
</tr>
<tr>
<td>Used for</td>
<td>Concrete, steel, wood, acrylic, gypsum</td>
</tr>
<tr>
<td>Application field</td>
<td>Buildings, airports, offshore structures, bridges</td>
</tr>
</tbody>
</table>

SI13 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 permanent hydrophobic.
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 300°C

Will last permanently for up to 25 year+.
SI15 1-Component (1K)

Ceramic Paint Coolest White for all types of surfaces

Product ID: SI152250  2.25L / 4.500gr
Viscosity: 30
Hardness: H7
Spray Thickness: 150-200 micron
Reachable area: 4..500gr  Body +/- 16m²
Used for: Concrete, steel, wood, acrylic, gypsum

SI15 is an incredibly strong 1-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 permanent hydrophobic.
• Resistant to all kinds of chemicals and UV radiation.
• This coating can withstand temperatures of 300°C

Will last permanently for up to 20 year+.
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 protection gear. We always recommend using a paint suit, respirator mask and latex or nitrile gloves.

Outfit/Applicators:

Application information
The SI11/SI12/SI13/SI15 coatings can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, indoors, or outdoors. The surface underneath will be superbly protected against erosion and corrosion and will stay cleaner longer. Cleaning becomes quicker, easier, and less expensive, as special cleaning agents are unnecessary.

Preparation
Make sure the surface is free from any contamination and dirt. A zinc rich primer can be used in case of problems with the substrate.

Warning the surface must be completely dry before application and must stay dry for 6 hours after application after application!

The 2-Component Permanent Coating System
Mix the can SI11B-SI12B with the can of SI11A-SI12A by pouring can B into can A, or measure exactly by net weight in a ratio of 7:3 and mix very well. Mix the can of SI13B with the can of SI13A by pouring can B into can A, or measure exactly by net weight in a ratio of 9:1 and mix very well. Carefully pour the mixed contents into a professional paint sprayer, and spray in thin layers until the surface reaches a thickness of 200 μm / 0.2mm after drying. Depending on the surface, material and structure, different application techniques can be used (such as paint rollers or brushes). Let the surface dry for 24 hours. It is touch-dry in 1 hours, after 4 hours, 85% cured, and the remaining 15% (transformation into ceramics) is fully cured after 7 days. Be aware that the mixed contents cannot be stored longer than 3 hours. The surface can simply be maintained with a high pressure washer at 80 bar using our biologically degradable Reactivating Shampoo.

Tool cleaning
The individual components, as well as the mixing system of the paint sprayer, can be diluted and cleaned using our Steril Cleaner.
Maintenance Plan for Trains

Step 1
Washing

Step 2
Polishing

Step 3
Steril Cleaner

Step 4
Basecoat / SI11/12
Curing time: 2 hours after application

Step 5
Nano Layer
Hydrophobic Topcoat

Step 6
Curing time: 6 hours in ambient temperature

Where to use our coatings:

- SIO3/SIO5 max
- SI11/ SI12
- SI13/ SI15
- Anti Gaffiti
Color Retention
QUV Accelerated Testing (ASTM D4587)

Gloss Retention
QUV Accelerated Testing (ASTM D4587)
Information

MSDS (Safety Data)  TEST (EN 1504-2)

Corrosion Tests

SGS (Test Reports)  Video Application & Result

NANO-CERAMIC®  THE NEW GENERATION COATINGS  NANO-CERAMIC.COM
The Leader in Durability

**Did you know?**
That our coatings are made of pure silica sand, which is the most common element on Earth?