Heavy Equipment coatings

Anti-Scratch
Anti-Corrosion
Self Cleaning
& Clear Vision
**What is Nano-Ceramic®?**

*NANO-CERAMIC®* is a revolutionary ultra hard and longlasting surface coating wearing ceramic in the world, that provides superior scratch resistance, and permanent protection for all Train paints and for all in trains used materials like fiberglass, aluminium, stainless steel, glass and carbon. The coating bonds molecular and permanent onto the surface.

**What makes Nano-Ceramic® so different?**

*NANO-CERAMIC®* is more then 4 times stronger than traditional clear coating. This allows NANO-CERAMIC® to effectively absorb damage that would otherwise affect the factory aircraft paint.

Swirl marks and light scratches are not only decreased by the harder ceramic coating, but first and for all the factory paint is perfect protected and preserved.

*NANO-CERAMIC®* is completely resistant to acidic environmental substances, as bird droppings, and to oxidation, this unlike current used automotive paint which can be permanently damaged.

*NANO-CERAMIC®* will not etch or dissolve when in contact with these substances, like salts, fuels, hydraulic fluids, and other harmfull substances, and the clean and original surface is mantained.
What are the benefits of applying NANO-CERAMIC®?

NANO-CERAMIC® will provide the surface with a superior clear coat film that once cured has a permanent hydrophobic surface that is much easier to clean, and stays cleaner for longer. Resulting in less maintenance, less maintenance cost, and in a higher resale value over time, and as extra benefit a beautifull luxury gloss.

How it works?

Step 1 Surface layer of factory gel coat is damaged and contaminated.

Step 2 Technician decontaminates and polishes gel coat to produce a smooth and even surface.

Step 3 Thickness gel coating will be restored with a superior NANO-CERAMIC® layer.

Tip! Install it direct upon delivery of a new equipment. This is by far the best and most economical option.
The Perfect Scenario Light Equipment

- **SI06** Glass / Acrylic
  - Windows
  - Optional

- **SI07** URBAN Economic
  - 3 Year protection
  - Topcoat
  - Hydrophobic
  - Anti Scratch

- **SI10** URBAN Basecoat
  - Permanent Protection

- **SI12** URBAN Diamond
  - 5 Year protection
  - Topcoat
  - Hydrophobic
  - Anti Scratch

- **SI09** Interior Sealer
  - Fabrics & Leather
  - Optional

- **Shampoo Nano**
  - Re-activating

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The Perfect Scenario Heavy Equipment

- **SI06**
  - Glass / Acrylic
  - Windows

- **SI11**
  - Spray on
  - 10 Year to 15 Year ++
  - Permanent Protection

- **SI09**
  - Interior Sealer
  - Fabrics & Leather

- **Shampoo Nano**
  - Re-activating
The benefits at a glance!

- Two simple steps Clean- and Apply
- Permanent protection from the surface underneath.
- Anti Scratch our layers are 4 times harder as factory paint.
- UV Ray Protection
- Superb protection against corrosion
- This coating has an outstanding hydrophobic effect, and the surface stays cleaner for longer.
- After the coating has been applied the surface is much easier and quicker to clean and the adhesion of dirt is reduced drastically.
- Our hydrophobic ultra-dry-surface application, prevents icing.
- Cleaning intervals and maintenance costs will be greatly reduced.
- Retention of paint work, and all surfaces treated resulting in a higher resale value over time.

Our layers are 4 time harder as factory paint.
Leading in Durability

<table>
<thead>
<tr>
<th>Product</th>
<th>Durability Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>SI11 2-Component</td>
<td>H9++</td>
</tr>
<tr>
<td></td>
<td>40% more durable/harder Spray on !! (hydrophobic)</td>
</tr>
<tr>
<td>SI10 Basecoat Permanent</td>
<td>H9++</td>
</tr>
<tr>
<td></td>
<td>30% more durable/harder than SI07 (non hydrophobic)</td>
</tr>
<tr>
<td>SI12 diamond Gloss</td>
<td>H9+</td>
</tr>
<tr>
<td></td>
<td>20% more durable/harder than SI07</td>
</tr>
<tr>
<td>SI07 Wetlook Gloss</td>
<td>H9</td>
</tr>
<tr>
<td></td>
<td>10% more durable/harder than the average competitor</td>
</tr>
</tbody>
</table>

What is material nano science?

Wear Coefficient or expected lifetime, \( K \)

\[
K = \frac{(wear \, volume) \times (hardness)}{(normal \, load) \times (sliding \, distance)}
\]

Order procedure

Trying is the best way to convince yourself.

You can order directly from us through our automatic order entry system
www.store.nano.ceramic-com

Upon receipt of order we will issue a Invoice, and once payment is received we will ship the order by courier of your choice.
Where to use our coatings

Regular Preparation Products

High End Ceramic Coatings

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Processing ... hour depends on size

Step 1
Washing

Step 2
Polishing

Step 3
Steril Cleaner

Step 4
Basecoat (Optional)
curing time 2 hours after application

Step 5
Nano Layer

Step 6
Curing Time
6 hour in ambients temperature

Protect your fleet with our super glossy invisible anti-scratch layers.
HOW TO USE:
NANO-CERAMIC® SIO6 SI07 SI10 SI12

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

Consumption:
- Glass: appr. 2ml/m²
- Steel 2ml/m²

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

IMPORTANT:
Before you use a NANO-CERAMIC® product please make sure you wear suitable protection gear we always recommend to use Latex or Nitril gloves to make sure your hands are protected from any possible damage to your skin.

RECOMMENDATION
The best effect is achieved by treating surfaces that are in new or almost new condition.

CLEANING
Make clean the surfaces thoroughly until the complete surface is absolutely clean. If necessary use our Shampoo and Scrub Cleaner and use our Steril Pre-treatment Cleaner as a last step to make sure that all Scrub cleaner residue or all contamination is removed so that the coating can bond properly onto a clean surface. Make sure that the surface is completely dry before application!

APPLICATION SI10 BASECOAT PERMANENT
Shake bottle before use!! We recommend to apply the surface of the object in easy to handle segments of about 50x50cm. Put 5-6 drops SI10 on the mini towel 15x15cm using the applicator block underneath, devide the coating properly by going only 3 times over the same surface, you need to see that it is still a little wet. Wait +/- 15 seconds till the little wet surface lights up towards grey, then take the remaining residue of and buff it carefully, using two separate micro towels for this. Wait 2 hours before you continue with the application of the SIO7/SI12. After 2 hours SI10 is 80% cured, and ready to receive SIO7/SI12. After 11 days SI10 its full hardened out and is almost on removable.

Our coating is anti-corrosive and anti-icing and has self cleaning capabilities and is safe to use on all painted, steel, glass and acrylic surfaces.
APPLICATION SIO7/SI12

Shake the bottle before use !! We recommend to apply the surface of the object in easy to handle segments of about 50x50cm..

Put 3-4 drops/m2 of SIO7 on the mini towel (15x15 cm) using the applicator block underneath.

Start dividing it from out of the middle of the surface, and keep spreading it around with light pressure in criss-cross motions until the product is evenly distributed, MOST IMPORTANT keep on doing this till no product residue is visible and no hazing is there.

If you use to 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 and it will roll up on eachother and form a not equal layer. To use so much coating and not divide it equally is the second most critical point !!

Actually when you apply in this correct way then there is no need to use a micro towel for polishing anymore, but if you still prefer to buff it, then buff it very gently and make sure that you use clean towels which are free from any contamination.

Our coating is super hydrophobic even graffiti is easy to remove using a pressure washer.

And protection aluminium, stainless steel, and paintwork the invisible layer makes the surfaces anti scratch, anti-fingerprints are easy to clean.

Our coating is super hydrophobic even graffiti is easy to remove using a pressure washer.

And protection aluminium, stainless steel, and paintwork the invisible layer makes the surfaces anti scratch, anti-fingerprints are easy to clean.
SI11 Heavy Duty
2 - Component
Paint / Steel Protector Line
Sprayable

Article Nr: SI111000 1KG / 2.205 lbs
Consumption: +/- 50gr-70gr/m² 1.8/2.5 oz/m²
Used for: painted surfaces, metal, glass
Application area: heavy machinery

Coating
• SI11000
  2 Component:
    - A = 750gr
    - B = 150gr

How to use
• See page 14

SI13 is an ultra long lasting 2-component surface coating which bonds molecular and permanently onto the surface.

• Two simple steps Clean- and Apply
• Water and dirt no change to penetrate, and camouflage paint is easy to remove.
• This coating has an outstanding hydrophobic effect.
• On heavy equipment, or restoration or renewal will be greatly reduced.

Will last for circa 10-15 year ++

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HOW TO USE:

NANO-CERAMIC® SI11 2 - Component Sprayable

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

Consumption:
Stone: approx. 50ml/m2
Processing temperature: 5-30°C - Avoid direct sunlight and/or high air humidity.

IMPORTANT:
Before you use a NANO-CERAMIC® product please make sure you wear suitable protection gear we always recommend to use Latex or Nitril gloves to make sure your hands are protected from any possible damage to your skin. It’s absolutely necessary to wear a full face chemical respirator mask and safety suit.

Applicators:

Application information

The SI11 system can be applied on mineral surfaces (absorbing and non-absorbing) such as bricks, sand stone, concrete, terracotta, stone etc. The SI11 system is transparent (for batch >1000L we can make custom colour). The surface will be cleaner for longer, and the cleaning itself becomes less time and less expensive as special cleaning agents are unnecessary.

Cleaning

Make clean the surfaces thoroughly until the complete surface is absolutely clean. If necessary use our Reactivating Pure Shine Shampoo in combination with a high pressure washer.

Make sure that all contamination is removed we recommend to use our Steril Cleaner prior to the application, so that the sealant can bond properly onto a clean surface. Make sure that the surface is completely dry before application!

This is a 2-Component Nano Coating

Mix bottle SI11 A with bottle SI11 B by pouring the bottle SI11 B bottle into the A 1L bottle, or measure by net weight in the ratio 3:1 and mix it very well. Carefully poor the mixed content into paint sprayer, spray in thin layers till the surface reach a thickness of appr. 80 - 200µm / 0.1-0.2mm / 0.004-0.008" after drying.

Depending on the face, material and structure, different application techniques can be used: Paint Roller, Paint Brush, or just Whiping the surface with a cotton cloth pad.

Let the surface dry for 24 hours. (85% is cured after 24 hours, and the remaining 15% will be fully cured after 7 days). Be aware that mixed content can not be stored longer then 3 hours.

The surface can simply be maintained with a High Pressure washer at 80-120 bar using our biologically degradable Reactivating Shampoo.

Tool cleaning

The individual components as well as the mixed system can be diluted with our Steril Cleaner.

Safety Paint Suit
Chemical Full Face Respirator Mask
Nitrile gloves
Cat sprayer 0.04 - 0.07" nozzle 1.00 -1.50 mm nozzle

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SIPR is a hydrophobic glossy ceramic sealer that renews coated and protect non-coated surfaces.

**SIPR**

**Ceramic Sealer**

**Si-Nano Protect®**

**Article Nr**
- SIPR0250 250m /8oz
- SIPR1000 1Litre /32oz

**Consumption**
Circa 12ml-15ml / 0.4-0.5oz (standard car)

**Used for**
High gloss & Water Spot prevention

**Application field**
Cars, Motorbikes, Scooters

Si-Nano Protect® bonds molecular and semi-permanent onto painted and nano-coated surfaces, and is designed to prevent water spots, acting as a glossy protective layer and will last for multiple months with just one application.

- the surface is much easier and quicker to clean and the adhesion of dirt is reduced drastically.
- leaving a high gloss surface behind, this sealant has an outstanding hydrophobic effect, cleaner for longer.
- cleaning intervals and the form of water spots will be greatly reduced.
- can also be used on unlackered plastic-and chrome parts, what make the product extremely suited for all automotive, motor and scooter applications
- is very suitable for engine room protection and dashboard gloss renewal.
- Will last for 3 month

**Preparation and Cleaning**
- CLEAN0250 250ml Steril
- CLEAN0500 500ml Steril
- CLEAN1000 1 Liter Steril
- SHPO1000 1 Liter Shampoo

**How to use:**
- see page 17

- easy to apply
- hydrophobic water & oil repellent
- anti water spot
- easy to clean
- high gloss
- engine room & dashboard gloss & protection
- cars & motors gloss & protection
HOW TO USE:

NANO-CERAMIC® Si-Nano Protect®, Steril & Shampoo

CLEANING
Make clean the surfaces throughly until the complete surface is absolutely clean. If necessary use our Shampoo. And use our Steril Pre-treatment Cleaner as a last step to make sure that all residue or all contamination is removed so that the Si-Nano Protect® can bound properly onto a clean surface. (Make sure that the surface is completely dry before application!)

APPLICATION
Shake the bottles very well before use! Spray 2-3 times on a clean microtowel (start with small amounts, there is only little product necessary). Moisten a panel evenly. When applied correctly you can now see a light grey veil on the surface. Polish away the grey veils using a clean (microfiber) cloth.

CURING PERIOD
Directly after polishing away the grey veils, the surface can be touched. At normal ambient temperature the sealant is completely cured after approximately 10 minutes.

AFTERCARE
We strongly recommend to use our Re-activating Pure Shine Shampoo, it reactivates the layer and cleans at the same time, without leaving a film of polymers or colouring chemicals behind. what could eliminate the hydrophobic effect what the Si-Nano Protect® layer provides. Our re-activating shampoo is environmental friendly.

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

Consumption:
Appr. 12-15 ml / 0.4-0.5oz
for a standard size car or 2-3 trigger sprays one panel.

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

IMPORTANT:
Before you use a NANO-CERAMIC® product please make sure you wear suitable protection gear we always recommend to use Latex or Nitril gloves to make sure your hands are protected from any possible damage to your skin.

Applicator:

40100703
SIVI

Ceramic Sealer
Si-Nano Vision®

Article Nr
SIVI0250 250m/8oz
SIVI1000 1 L/32oz

Consumption:
+/- 8ml -10ml / 0.3-0.4oz standard car

Used for:
clear vision & water spot prevention

Application field:
car windshield and glass surfaces

Si-Nano Vision® is an extremely high tech ceramic sealer that is especially designed for coated and non-coated car glass surfaces.

• glass is much easier and quicker to clean and the adhesion of dirt is reduced drastically.

• the sealant has an outstanding hydrophobic effect, glass stays cleaner for longer.

• cleaning intervals and the form of water spots will be greatly reduced.

• 30% better visibility in raining conditions. what leads to enhanced safety.

Will last for 3 month

Preparation and Cleaning
• CLEAN0250 250ml Steril
• CLEAN0500 500ml Steril
• CLEAN1000 1 Liter Steril
• SHPO1000 1 Liter Shampoo

How to use:
• see page 19

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HOW TO USE:

NANO-CERAMIC® Si-Nano Vision®, Steril & Shampoo

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

Consumption:
+/- 8-10 ml/one for standard size car or 2 trigger sprays one window.

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

IMPORTANT:
Before you use a NANO-CERAMIC® product please make sure you wear suitable protection gear we always recommend to use Latex or Nitril gloves to make sure your hands are protected from any possible damage to your skin.

Applicators:

CLEANING
Make clean the glass thoroughly until the complete surface is absolutely clean. If necessary use our Shampoo. And use our Steril Pre-treatment Cleaner as a last step to make sure that all residue or all contamination is removed so that the Si-Nano Vision® can bound properly onto a clean glass surface. Make sure that the surface is completely dry before application!

APPLICATION
Shake the bottles very well before use! Spray 2 times on a clean microtowel (start with small amounts, there is only little product necessary). Moisten a window evenly. When applied correctly you can now see a light grey veil on the surface. Polish away the grey veils using a clean (microfiber) cloth.

CURING PERIOD
Directly after polishing away the grey veils, the surface can be touched. At normal ambient temperature the sealant is completely cured after approximately 10 minutes.

AFTERCARE
We strongly recommend to use our re-activating shampoo, it reactivates the layer and cleans at the same time, without leaving a film of polymers or colouring chemicals behind. what could eliminate the hydrophobic effect what the Si-Nano Vision® layer provides. Our re-activating shampoo is environmental friendly.

WINDSHIELD ADDITIVE
SiVI can also be used as windshield additive diluted in the ratio of 2/100
CLEANING
Make clean the surfaces thoroughly until the complete surface is absolutely clean. If necessary use our Reactivating Pure Shine Shampoo. Make sure that all contamination is removed so that the sealant can bond properly onto a clean surface. Make sure that the surface is completely dry before application!

APPLICATION
Shake the bottles very well before use! and spray until the surface is saturated.

CURING TIME
At normal ambient temperature the coatings are completely cured after approximately 24 hours.

AFTERCARE
We strongly recommend to use our re-activating shampoo, it reactivated the nano layer and cleans at the same time, without leaving a film of polymers or colouring chemicals behind as we formulated this shampoo on a very pure basis. This shampoo is very

IMPORTANT:
Before you use a NANO-CERAMIC® product please make sure you wear suitable protection gear we always recommend to use Latex or Nitril gloves to make sure your hands are protected from any possible damage to your skin.
Testing Certificates

Permanent Coating System (PCS) EN1504-2
Material Safety Data Sheets

Corrosion Tests

Test

Uncoated

Test

Coated
Do you know?
That our coatings are made of pure silica sand which is the most common element on earth?

The leader in Durability

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