What is Nano-Ceramic®?

NANO-CERAMIC® is a revolutionary ultra hard and longlasting surface coating wearing ceramic, that provides superior scratch resistance, and permanent protection for all factory aircraft paints and for all in aerospace used materials like aluminium and carbon. The coating bonds molecular and permanent onto the surface.

What makes Nano-Ceramic® so different?

NANO-CERAMIC® is more than 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 your factory aircraft paint and aluminium parts 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 maintained.
What are the benefits of applying NANO-CERAMIC®?

NANO-CERAMIC® will provide the aircraft with a superior clear coat film that on winglets can withstand 600+ winds from 30,000 feet above the earth, is resistant to chemical etching, is much harder than factory aircraft coatings, it will reduce swirl marks and scratches, and has a permanent hydrophobic surface that is much easier to clean, and stays cleaner for longer.

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

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

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

Tip! Direct apply upon delivery of a new aircraft is the best option.
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.
- Due to a much smoother surface the aircraft saves on fuel consumption.
- 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.

A clean and healthy plane is an important marketing tool towards your customers.
Leading in Durability

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SI11 AVIA Permanent 2-Component MG</td>
<td>40% durable/harder Spray on !! (hydrophobic)</td>
</tr>
<tr>
<td>SI10 AVIA Basecoat Permanent H9++</td>
<td>30% durable/harder than SI07 (non hydrophobic)</td>
</tr>
<tr>
<td>SI14 AVIA Diamond H9+</td>
<td>20% more durable/harder than SI07</td>
</tr>
<tr>
<td>SI07 AVIA Economic H9</td>
<td>10% more durable/harder than the average competitor</td>
</tr>
</tbody>
</table>

What is material nano science?
Wear Coefficient or expected lifetime, $K$

$$K = \frac{(wear \; volume) \times (hardness)}{(normal \; load) \times (sliding \; distance)}$$

Easy Order Entrance

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.
The Perfect Scenario Small-Medium Size

**RECOMMENDED**

- **SI10**
  - AVIA Basecoat
  - Permanent Protection

**OPTIONAL**

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

- **SI07**
  - AVIA Economic
  - 3 Year protection

- **SI14**
  - AVIA Diamond
  - 5 Year protection

**OPTIONAL**

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

**Shampoo Nano**

- Re-activating

- Topcoat
  - Hydrophobic
  - Anti Scratch

- Topcoat
  - Hydrophobic
  - Anti Scratch

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NANO-CERAMIC®  
THE NEW GENERATION COATINGS  
NANO-CERAMIC.COM
The Perfect Scenario Large Size Heavy Use

SI11/SI12
AVIA
Spray/Roll-on
2-Component
20 Year++
Permanent
Protection

Shampoo Nano
Re-activating
Where to use our coatings

IATA Packaging on request

Our High End Ceramic Coating Range
Our Regular Maintenance Products

**Interior Protector**
Transparent
1L/32oz
SIFX1000
Consumption 100ml/2,5m² 3,2oz/2,5m²
Fabrics & Leather

**Nano Wash**
Hydrophobic Gloss Shine
1L/32oz
SIFX1000
Consumption 100ml/2,5m² 3,2oz/2,5m²

**Si-Nano Protect®**
Renew Gloss & Hydrophobic
250ml/8,5oz 1L/32oz
SIPR0250  SIPR1000
Consumption 2ml/m² 0,06oz/m²
Aluminium Paint

**Si-Nano Vision®**
Renew Hydrophobic
250ml/8,5oz 1L/32oz
SIVI0250  SIVI1000
Consumption 2ml/m² 0,06oz/m²
Aluminium Paint

**Si-Multi Cleaner®**
Hydrophobic Disinfectant
250ml/8,5oz 1L/32oz
SIMC0250  SIMC1000
Consumption 2ml/m² 0,06oz/m²
All Surfaces

**Steril Cleaner**
100ml/0,32oz 250ml/8,5oz
500ml/16oz 1L/32oz
CLEAN0100/250/500/1000
Consumption 2ml/m² 0,06oz/m²
Aluminium Paint Glass

**Shampoo Nano**
Re-active Pure Shine
1L/32oz 5L/160oz
SHRE1000  SHRE 5000
Dilution ratio 2/100
All Surfaces

**Scrub**
Anti-Scratching
250ml/8,5oz 1L/32oz
SCRUB0250  SCRUB1000
Consumption 2ml/m² 0,06oz/m²
All Surfaces

**Instruction and training on location**

The proper composition and application of our coatings according to their specifications is critical to ensure they meet requirements of their intended purpose. Upon request we arrange training sessions on location and give instruction about how to use our coatings, or we arrange via our global installer network to apply it for you.
How to use our High End Ceramic Coatings
SIO6 SIO7 SI10 SI14:

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

Consumption: appr. 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.

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 bound properly onto a clean surface. Make sure that the surface is completely dry before application!

RECOMMENEDATION
The best effect is achieved by treating surfaces that are in new or almost new condition. Especially painted surfaces we recommend to polish with machine using our One Step Polish compound. Depending on the condition of the surface, one pad can be chosen to polish the surface in one single step to hypergloss without swirl and hologram (read further page 21 recommended polishing line)

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 40100502 15x15cm using the applicator 40100602 block underneath, devide the coating properly by going only 3 times over the same surface, you need to see that it is then 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
SI06 is a superb feature for aircrafts. In industry, super-hydrophobic coatings are already widely used in ultra-dry surface applications.

In addition to these industrial applications, our super hydrophobic coatings have proven their use on vehicle windshields to prevent rain droplets from clinging to the glass.

Our coating is anti-corrosive and anti-icing and has self cleaning capabilities and are safe to use on all glass and acrylic surfaces.

**APPLICATION SI06**

Shake the bottles very well before use! Take a soft 40100100 cotton pad and pour a few drops of the coating on it (start with small amounts, there is only very little product needed). And rub-it in on the Glass- Acrylic panels evenly end with firm pressure on the pad. When applied correctly you can now see a light grey veil on the surfaces. Polish away the grey veils after all solvents are vaporized, use a clean 40100703 microfiber cloth, don’t use a lot of power to take them away.

**CURING TIME**

Directly after polishing the coating is dry and resistant against touching. At normal ambient temperature the coatings are completely cured after approximately 12 hours.
SI07 protects aluminium and stainless steel, the invisible layer makes the surfaces anti-fingerprint and easy to clean.

APPLICATION SI07, OR SI14

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 SI07 or SI14 on the 40100502 mini towel (15x15 cm) using the 40100602 applicator block underneath. (for difficult reachable areas our 40100100 Cotton pad can be used)

Start deviding it from out of the middle of the surface, and keep spreading it arround 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 left 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 devide it properly and it will roll up on eachother and form a not equal layer.

To use to 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.
SI11/12 Transparent/Matte
2 - component

Metall / Paint / Fiberglass
Permanent coating system

**Article Nr:**
SI11000 1 Kg / 32oz  SI12000 1L / 32oz

**Consumption:**
+/- 50ml-70ml/m²  2oz/m²  depending structur

**Used for:**
metall, paint, fiberglass

**Application area:**
Heavy Duty Coating

SI11/SI12 is a permanent 2-component surface coating system which bonds molecular and permanently onto painted and unpainted surfaces resulting in permanent protection from the surface underneath.

**Heavy Use !!  thickness 0.1-0.2 mm**

Two simple steps Clean-Dry and Apply
- Water and dirt get no change to penetrate, and is easy to remove.
- This coating has an outstanding hydrophobic effect.
- Resistent against all kind of chemicals and UV radiation
- Superior anti corrosion coating

Will last permanent for at least 15-20 year+

**Coating**
- SI111000 / SI121000
  2 Component:
  - A = 750gr
  - B = 250gr

**Prepare and Clean**
- Shampoo 1 litre

**How to use:** See page 14
HOW TO USE:
NANO-CERAMIC® SI11-SI12  Permanent Coating System Heavy Duty

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

**Consumption:**
Approx. +/- 50gr/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-SI12 system can be applied direct or indirect on all surfaces (absorbing and non-absorbing) such as concrete, steel, wood, acrilic, gypsum, painted or unpainted surfaces, indoor or outdoor. The surface underneath will be superb protected against erosion and corrosion and will be cleaner for longer, and the cleaning itself becomes less time and less expensive as special cleaning agents are unnecessary.

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 so that the coating can bond properly onto a clean surface. **Make sure that the surface is completely dry before application! The surface may not become wet during application and 24 hours after application!**

**This is a 2-Component Nano Coating System**
Mix bottle SI11B-SI12B (250gr) with bottle SI11A-SI12A -SI13A (750gr) by pouring the bottle B bottle into the A bottle, or measure exact by net weight in the ratio 3:1 and mix it very well. Carefully poor the mixed content into a professional paint sprayer, spray in thin layers till the surface reach a thickness of 80 or 200μm / 0.1mm or 0.2mm after drying, depending on your choice of protection 10 or 20 years. Depending on the face, material and structure, different application techniques can be used: Paint Roller, or Paint Brush. 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 the mixed content can not be stored longer than 3 hours.

**Maintenance**
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 from the paint sprayer can be diluted using our Steril Cleaner.
How to use our Fabrics and Leather coating SIFX:

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

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.

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

Consumption:
Fabric +/- 65ml/m²
Leather +/- 40ml/m²
Processing temperature: 5-30°C - Avoid direct sunlight

Applicators:
Paint sprayer
Spray master

NANO-CERAMIC®
THE NEW GENERATION COATINGS
NANO-CERAMIC.COM
Exterior Permanent Protection

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
Si-Multi Maintenance Cleaner
Hydrophobic Disinfectant

Article Nr: SIMC0250  SIMC1000
Consumption: +/- 2ml/m²  0,06oz/m²
Used for: glass / chrome / porcelain / vinyl / acrylic
Application field: airports, office buildings, hotels and private housing

Si-Multi Maintenance Cleaner bonds while cleaning, molecular and permanent a disinfectant hydrophobic nano layer onto the surface.

• The surface is much easier and quicker to clean as the product contains a high tech cleaning agent.
• Bacteria get less chance to survive, and the hygiene goes to a higher level. As the bacterial disinfectant remains active as long as the layer is there.
• This cleaner has an outstanding hydrophobic effect, adhesion of dirt will be reduced drastically, and the surface stays cleaner for longer.
• Can be used as maintenance cleaner on all nano and non-nano coated surfaces.

Will last for circa 1 months

Multi Cleaner
SIMC 250 ml / 8oz / 1L 32oz
Applicator
• Microtowel
• unbreakable bottles
• hydrophobic water & oil repellent
• disinfectant
• self cleaning
• cuts cleaning time 90%
• cleaner for longer
• visibility safety
How to use our Si-Multi Maintenance Cleaner

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

**Consumption:**
+/- 2 ml /M2

**Processing temperature:**
5-30°C - Avoid direct sunlight

**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.

**EASY APPLICATION CLEAN-WHIPE-BUFF OFF**
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 all the panels evenly. When applied correctly you can now see a light grey veil on the surfaces. Polish away the grey veils using a clean (microfiber) cloth.

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

**Applicators:**

40100703 Spray master

Super economical Cuts cleaning time by 90%

2ml / m²
Permanent Coating System (PCS) EN1504-2
Material Safety Data Sheets

<table>
<thead>
<tr>
<th>Uncoated</th>
<th>Coated</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSDS SI10.pdf</td>
<td>MSDS SI11.pdf</td>
</tr>
<tr>
<td>MSDS SI11-A.pdf</td>
<td>MSDS SI11-B.pdf</td>
</tr>
<tr>
<td>MSDS SI12 copy.pdf</td>
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<tr>
<td>MSDS SI1R.pdf</td>
<td>MSDS SI1R.pdf</td>
</tr>
</tbody>
</table>

Corrosion Tests

![Test Uncoated](image1)

![Test Coated](image2)

Instructions

Watch the apply video @ our website
Recommended Polishing Serie

DA High Speed Polisher
(5.5inch Pads)
90100100
DA Small Polisher HS Polisher
(3inch Pads)
90100200

One Step Polish
3000grain to Hypergloss
STEP0250

Polishing Pads  5.5inch
Purple Wool  (heavy cut to high gloss)
40201008
Microfiber White (medium cut to high gloss)
40201101
Microfiber Brown (micro cut to high gloss)
40201206
Microfiber Black (Polish to high gloss)
40201302

Polishing Pads  3.5inch
Purple Wool  (heavy cut to high gloss)
40201008
Microfiber White (medium cut to high gloss)
40201101
Microfiber Brown (micro cut to high gloss)
40201206
Microfiber Black (Polish to high gloss)
40201302

Padwasher System 3000
90200100
Towel Edgeless Grey
40100703
Microfiber Clay Wash
40100805
Do you know?
That our coatings are made of pure silica sand which is the most common element on earth?

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