Aviation
What is NANO-CERAMIC?

NANO-CERAMIC is a revolutionary, ultra-hard and long-lasting ceramic surface coating that provides superior scratch resistance and semi-permanent protection for all factory aircraft paints and for all aerospace materials like aluminum and carbon.

What makes NANO-CERAMIC so different?

NANO-CERAMIC forms super-durable molecular bond with the surface and is more than 4 times stronger than traditional clear coating. This allows NANO-CERAMIC to effectively absorb damage that would otherwise affect the factory paint, significantly diminishing the formation of swirl marks and light scratches and protecting and preserving the factory paint from environmental damage and corrosion, which can cause major maintenance issues over time.

NANO-CERAMIC is completely resistant to acidic environmental substances, such as bird droppings and acid rain, and to oxidation, unlike your factory aircraft paint and aluminum parts which can be permanently damaged.

NANO-CERAMIC will not etch or dissolve when in contact with harmful substances like salts, fuels, and hydraulic fluids, maintaining the clean and original surface.
What are the benefits of applying NANO-CERAMIC?

NANO-CERAMIC will provide aircraft with a superior clear coat film that, on winglets, can withstand 600+ mph winds at 30,000 feet above the earth. It is resistant to chemical etching, is much harder than factory aircraft coatings, will reduce swirl marks and scratches, and has a semi-permanent hydrophobic surface that is much easier to clean, and stays cleaner 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 Coating thickness will be restored with a superior NANO-CERAMIC layer.

Tip! Apply immediately upon delivery of aircraft for best results.
NANO-CERAMIC is available in different grades:

**SIBC Basecoat**
- For maximum results with total hardness, first use our Gorilla Basecoat 2.5 Micron. Especially recommended for soft clear coats & repainted aircrafts SIBC basecoat provides ultimate hardness with an almost unremovable smooth finish ready to bond with any of our revolutionary protective coatings.
- Superb Hydrophobic Effect
- Excellent Weather Resistance

**SIO5 Diamond**
- 2 Micron HD (High Density)
- Reduce Micro-Scratches with H9++ Hardness
- Superb Hydrophobic Effect
- Excellent Weather Resistance
- UV & Thermal Resistance
- Diamond-hard stand-alone on matte paints
- 5 Years of protection on factory paint (in combination with SIBC)

**SIO7 Ultra Gloss**
- 6 Micron
- Reduce Scratches with H9+ Hardness
- Superb Hydrophobic Effect
- Excellent Weather Resistance
- UV & Thermal Resistance
- Enhanced Durability
- 3 Years protection on factory paint (in combination with SIBC)

**SIO6 Clear View**
Protect glass surfaces & mirrors
Repels water for 30% better visibility in rainy conditions.
- 2H Hardness (2 micron)
- Lasts 6-12 months
<table>
<thead>
<tr>
<th><strong>SIFX</strong> Fabric &amp; Leather</th>
<th><strong>NWAS Nano Wash</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Water and dirt are repelled, so spills are easier to clean.</td>
<td>• Premium grade, high-gloss shampoo, low-foaming to reduce drying stains.</td>
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<tr>
<td>• Enhanced hygiene.</td>
<td>• Features a built-in hydrophobic effect, so glass and paint stay cleaner longer.</td>
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<tr>
<td>• This coating has an outstanding hydrophobic effect to keep fabrics, leather and carpets cleaner and drier longer.</td>
<td>• Cleaning intervals and the formation of water spots will be greatly reduced.</td>
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<tr>
<td>• Resists environmental pollution.</td>
<td>• Dries 80% faster, saving time and money.</td>
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<tr>
<td>• Lasts 1-3 years (depending on use)</td>
<td>• Super-hydrophobic surface angle &gt;150°</td>
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<tr>
<td>• Dilute 1:50. Lasts up to 4 weeks.</td>
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<tr>
<th><strong>SIPR Si-Nano Protect</strong></th>
<th><strong>SIVI Si-Nano Vision</strong></th>
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<tbody>
<tr>
<td>• 0.5 Micron</td>
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</tr>
<tr>
<td>• Use on Paint, Chrome, Plastic, Dashboard &amp; Engine</td>
<td>• Use on Windshields and Mirrors</td>
</tr>
<tr>
<td>• Easy to Apply, Spray, Wipe, Buff Off</td>
<td>• Can be used as windshield wiper fluid additive (dilute 2:100)</td>
</tr>
<tr>
<td>• Apply to Coated/Uncoated aircraft</td>
<td>• Easy to Apply: Spray, Wipe, Buff off</td>
</tr>
<tr>
<td>• Hydrophobic Effect</td>
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<tr>
<td>• Brings back original shine</td>
<td>• Hydrophobic Effect</td>
</tr>
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<td>• Anti-water spot protective layer</td>
<td>• 30% Better visibility in rainy conditions</td>
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The Perfect Protection Plan for Your Aircraft

**OPTIONAL**
- SIO6
  - Glass / Acrylic
  - Windows

**RECOMMENDED**
- SI10
  - Near-Permanent Protection

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

**SI14**
- Diamond
- 5-Year protection
- Topcoat
  - Hydrophobic
  - Micro-Scratch Resistant

**SI07**
- Ultra Gloss
- 3-Year protection
- Topcoat
  - Hydrophobic
  - Scratch Resistant

**Maintenance**
**3-MONTH CYCLE**
- Extra protective layer to avoid water spots that can damage the ceramic layer, and to maintain a hydrophobic barrier

**Weekly**
- SHRE
  - Pure Shine Shampoo
- MPCL
  - Multi-Purpose Cleaner

**Monthly**
- NWAS
  - Hydrophobic Nano-Wash

**SIO5**: A stand-alone product that can also be used on matte paint due to its 2-Micron thickness.
Maintenance Steps:

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 hours in ambient temperature

Instruction and Training on Location

The proper application of our coatings according to their specifications is critical to ensure that they meet the requirements of their intended purpose. Upon request, we arrange training sessions on location and give instructions and advice about the use of our coatings, or we will make arrangements via our global installer network to apply it for you.
Ultra Gloss

Diamond
Where to use our coatings:

IATA packaging on request

Our high-end ceramic coating range

- **Basecoat H9+++**
  - Scratch-Resistant
  - Semi-Permanent
  - Non-Hydrophobic
  - 100 ml
  - SI100100
  - Consumption 2 ml/m²
  - Paint, Fiberglass, Stainless Steel, Aluminum

- **Ultra H9+**
  - Scratch-Resistant
  - Semi-Permanent
  - Hydrophobic
  - 100 ml
  - SI070100
  - Consumption 2 ml/m²
  - Paint, Fiberglass, Stainless Steel, Aluminum

- **Diamond H9+++**
  - Micro-Scratch Resistant
  - Semi-Permanent
  - Hydrophobic
  - 100 ml
  - SI140100
  - Consumption 2 ml/m²
  - Paint, Fiberglass, Stainless Steel, Aluminum

- **Ceramic Coating H2**
  - Semi-Permanent
  - Hydrophobic
  - 100 ml
  - SI060100
  - Consumption 2 ml/m²
  - Glass, Acrylic

NANO-CERAMIC®
THE NEW GENERATION COATINGS
NANO-CERAMIC.COM
Nano Maintenance and Cleaning Aids

Interior Protector
Transparent
- 1 L
- 5 L
- 20 L
SIFX1000 SIFX5000 SIFX020L
Consumption 20-40 ml/m²
Fabrics & Leather

Si-Nano Protect
Renew Gloss & Hydrophobic
- 250 ml
- 1 L
- 5 L
SIPR0250 SIPR1000 SIPR5000
Consumption 2.5 ml/m²
Aluminum, Paint

Si-Nano Vision
Renew Hydrophobic
- 250 ml
- 1 L
- 5 L
SIVI0250 SIVI1000 SIVI5000
Consumption 2.5 ml/m²
Glass, Acrylic

Nano Wash
Hydrophobic Gloss Shine
- 1 L
- 5 L
- 20 L
NWAS1000 NWAS5000 NWAS020L
Dilution ratio 2:100
All Surfaces

Our Regular Maintenance Products

Scrub
Non-Scratching
- 250 ml
- 1 L
SCRUB250 SCRUB1000
Consumption 2.5 ml/m²
All Surfaces

Steril Cleaner
Pretreatment
- 250 ml 500 ml 1 L
CLEAN0100/250/500/1000
Consumption 2.5 ml/m²
Aluminum, Paint, Glass

Shampoo Re-active
Pure Shine
- 1 L
- 5 L
SHRE1000 SHRE5000
Dilution ratio 1:500
All Surfaces

Multi-Purpose Cleaner
Interior
- 500 ml
- 5 L
- 1 L
MPCL0500/MPCCL5000/MPCL020L
Consumption 2.5 ml/m²
All Surfaces
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:
Approximately 2 ml/m²
Ambient temperature: 5-30°C
Avoid direct sunlight and/or high humidity.

IMPORTANT:
Before you use a NANO-CERAMIC product, please make sure you wear suitable protection gear. We always recommend using latex or nitrile gloves to make sure your hands are protected.

CLEANING
Clean the surface thoroughly until absolutely clean. If necessary, use our Shampoo and Scrub Cleaner with our Steril Pretreatment Cleaner as a last step to make sure that all Scrub cleaner residue or other contamination is removed and the coating can bind properly. Make sure that the surface is completely dry before application!

RECOMMENDATION
The best effect can be achieved by treating surfaces that are in new or almost new condition. For painted surfaces, we recommend polishing with a machine using our One-Step Polish compound. Depending on the condition of the surface, a single pad can be used to polish the surface to a hyper-gloss without swirls or holograms (see page 22 for our recommended polishing line).

APPLICATION OF SI10 BASECOAT SEMI-PERMANENT
Shake bottle before use! We recommend applying the treatment in easy-to-handle segments of about 50 x 50 cm. Put 5-6 drops of SI10 on the towel (40100502, 15 x 15 cm) using an applicator block (#40100602) underneath. Spread the coating properly by going over the same surface only 3 times. Wait about 15 seconds until a haze forms. Remove the haze by buffing lightly with a microfiber towel. Wait 2 hours before you continue with the top coat application of SIO7 or SI14 (See our application movie on the website). After 2 hours, SI10 is 80% cured and ready to receive SIO7 or SI14. After 11 days, SI10 is fully hardened and almost removable.
SIO6 is a superb treatment for aircraft windows. In other industries, super-hydrophobic coatings are already widely used in ultra-dry surface applications. In addition to industrial applications, our super-hydrophobic coatings have proven their use on aircraft and other vehicle windshields to prevent rain droplets from clinging to the glass. Our coating is anti-corrosive, anti-icing, has self-cleaning capabilities, and is safe to use on all glass and acrylic surfaces.

**SIO6 APPLICATION**
Shake the bottle very well before use! Take a soft cotton pad (#40100100) and pour a few drops of the coating on it (start with a small amount, as very little product is needed). Rub evenly onto glass or acrylic panels with firm pressure on the pad. When applied correctly, you can now see a light grey haze on the surface. Gently use a clean cheesecloth to polish away the haze after all solvents are vaporized.

**CURING TIME**
Immediately after polishing, the coating is dry and resistant to touching. At normal ambient temperature, the coatings are completely cured after approximately 12 hours.
APPLICATION OF SIO7 OR SI14

Shake the bottle very well before use! We recommend applying the treatment in easy-to-handle segments of about 50 x 50 cm. Put 3-4 drops/m2 of SIO7 or SI14 on the towel (#40100502, 15 x 15 cm) using the applicator block (#40100602) underneath. For hard-to-reach areas, our cotton pad (#40100100) can be used. Start in the middle of the surface and work outward, spreading it with light pressure in criss-cross motions until the product is evenly distributed.

MOST IMPORTANT

Continue until no product residue or hazing is visible. If you use too much coating or start in the corner of a panel, then you will not be able to divide it properly which can prevent the formation of even layers. When applied correctly, there is no need to use a microfiber towel for further polishing. If you still prefer to buff it, then rub very gently and make sure that you use clean towels.
How to use SIFX, our fabric & leather protector:

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

**Consumption:**
- Fabric +/- 65 ml/m²
- Leather +/- 40 ml/m²

**Ambient 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 nitrile gloves to make sure your hands are protected from any possible damage to your skin.

**CLEANING**
Clean the surface thoroughly until it is absolutely clean. If necessary, use our Reactivating Pure Shine Shampoo. Make sure that all contamination is removed so that the sealant can bind properly onto a clean surface. Make sure that the surface is completely dry before application!

**APPLICATION**
Shake the bottle very well before use! 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 using our Reactivating Pure Shine Shampoo. It reactivates the nano layer and cleans at the same time, without leaving a film of polymers or coloring chemicals behind. This shampoo is biodegradable and safe for skin as well.

**NOTICE**
If the textile surface is very coarse, then the spaces between the fibers may be too large to make it watertight. However, the coating will still protect the individual fibers from the penetration of water and dirt.

Outstanding fabric, leather, and vinyl protection to repel water and dirt with ease.
How to use Si-Nano Protect & Si-Clear Vision

NANO-CERAMIC maintenance products ensure a lasting quality.

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

Consumption:
Approx 2 ml/m² or 2 trigger sprays per m²

Ambient temperature: 41-86°F
- Avoid direct sunlight and/or high humidity.

IMPORTANT:
Before you use a NANO-CERAMIC product, please make sure you wear suitable protection gear. We always recommend to use latex or nitrile gloves to make sure your hands are protected.

CLEANING
Clean all surfaces thoroughly with SHRE Shampoo, and use our Steril Pretreatment Cleaner as a last step to make sure that all residue and contamination is removed so the Si-Nano Protect can bind properly with the surface. Make sure that the surface is completely dry before application!

APPLICATION
Shake the bottle very well before use! Spray 2-3 times on a clean microfiber towel (start with small amounts; only a little product is necessary). Moisten all panels evenly. When applied correctly, you will see a light grey haze on the surface. Polish away the haze using a clean microfiber cloth. Using too much product can cause streaking.

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

AFTERCARE
We strongly recommend using our SHRE Pure Shine Shampoo to reactivate the layer and clean at the same time, without leaving a film that could eliminate the hydrophobic effect that the Si-Nano Protect layer provides. Our reactivating shampoo is environmentally friendly.

WINDSHIELD ADDITIVE
SIVI can also be used as windshield washing fluid additive when diluted 2:100.
Nano Wash adds a glossy, super-hydrophobic layer while washing your plane and cuts drying time by 80%.

- Can be used for hand-washing or in automatic washes and is suitable for coated and uncoated aircraft.
- Premium grade, high-loss shampoo, low-foaming to reduce drying stains.
- Features a built-in hydrophobic effect, so glass and paint stays cleaner longer.
- Cleaning intervals and the formation of water spots will be greatly reduced.
- 80% faster dry, saving time and money.
- Super-hydrophobic surface angle >150°
- Dilute 1:50. Hydrophobic effect lasts up to 4 weeks.
SCRUB

Scrub Cleaner
Non-Scratching

**Product ID**: SCRUB0250 250 ml / SCRUB1000 1 L
**Consumption**: +/- 2.5 ml/1m²
**Used for**: Hard surfaces
**Application field**: Paint, glass, chrome, plastic, carbon fiber

SCRUB pretreatment cleaner is the gentle way to clean cars protected with a layer of NANO-CERAMIC coating that need maintenance due to water spots.

Scrub Cleaner uses ultra-fine polishing agents that safely and effectively remove mineral deposits or other stubborn contaminants. Suitable for use on paint, glass, chrome, and many other materials without scratching the surface.

If the ceramic coating is still stained after using our WSRE Water Spot & Stain Remover, applying SCRUB with a microfiber towel is recommended.
Steril cleans and prepares the ceramic layer for SIPR / SIVI and for our high-end coatings.

CLEAN

Steril Cleaner
Pretreatment

Product ID : CLEAN0500 500 ml / CLEAN1000 1 ml
Consumption : +/- 2 ml/1m²
Used for : Preparation cleaner to open surface pores
Application field : Paint, glass, plastic, chrome, carbon fiber

Steril pretreatment cleaner is a 100% sterile mixture that uses new technology to thoroughly prepare hard surfaces to form an enhanced and super-durable bond with our ceramic coatings.

- Makes surfaces much easier and quicker to clean and infiltrates the tiniest pores to create maximal grip for high-tech coating and sealing applications
- Degreases and prepares in a single step • Safe and economical to use
- Won’t discolor materials

Easy to apply
Degreaser
Easy to clean
Sterile clean
Safe to use

Applicator:

40100703
Clean and shine interior or exterior surfaces with SHRE to keep your aircraft in beautiful condition.

SHRE
Multi-Purpose
Pure Shine Shampoo

Product ID : SHRE1000 1 L / SHRE5000 5 L / SHRE020L 20 L
Consumption : +/- 20 ml : 10 L water (0.05 ml/m²)
Used for : Automatic or manual washing, interior & exterior
Application field : Coated and uncoated aircraft

SHRE reactivating shampoo is a high-tech shampoo that is specially designed for today’s high-performance aircraft washes.

This shampoo is free from polymers, waxes, and coloring chemicals that can severely degrade the hydrophobic effect that a nano layer provides

- Pure gloss
- Reactivates nano layers
- Safe to use for exterior and interior cleaning
- Dilute 1:500

Easy to apply
Hydrophobic: Water & oil repellent
Anti-water spot
Easy to clean
Stays cleaner longer

Applicator:

40100703
First Class Shower Protection and Multi Cleaner Disinfectant.

**MPCL**

**Multi-Purpose Interior Cleaner**

- **Product ID**: MPCL0500 500 ml / MPCL5000 5 L
- **Consumption**: +/- 2 ml/m²
- **Used for**: All surfaces
- **Application field**: Interior use

MPCL Multi-Purpose Cleaner cleans and protects all interior surfaces quickly and easily.

Just spray and wipe to clean and protect interior plastics, vinyl, leather, fabrics, rubber, metal, carbon fiber, wood, audio and video equipment, and even engine compartments.

MPCL Multi-Purpose Cleaner leaves a strong UV protectant to keep surfaces looking like new!

Using an advanced concentrated formula, it cleans the smallest pores to remove stubborn dirt and odors.

- Anti-bacteria
- Pleasant scent
- Anti-odor

**Easy to apply**

*Simply Spray, Wipe, Buff Off*

**Anti-bacterial**

**Pleasant scent**

**Anti-odor**

**Applicator:**

40100703
Recommended Polishing Equipment

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

One-Step Polish 8.5 oz
3000 grain to Hypergloss
STEP0250

Polishing Pads 5.5-inch
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 3.5-inch
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
Material Safety Data Sheets

Testing certificates

Corrosion Tests

NANO-CERAMIC® THE NEW GENERATION COATINGS NANO-CERAMIC.COM
Did you know?
Our coatings are made of pure silica sand, which is the most common element on Earth?

The Leader in Durability

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