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 train finishes and materials, like fiberglass, stainless steel, glass, and carbon fiber by forming semi-permanent molecular bonds with the surface.

NANO-CERAMIC is flexible enough to handle the expansion and deformation of steel panels. It won’t crack or peel off.

NANO-CERAMIC gives a near-permanent super gloss and will leave surfaces in showroom condition without the need for waxes or other cleaning agents.

NANO-CERAMIC is completely resistant to acidic environmental substances, such as bird droppings and acid rain, and to oxidation and corrosion from salty water, unlike your factory vehicle paints and other parts which can be permanently damaged.

NANO-CERAMIC will 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 trains with a superior clear coat film that can withstand harsh environmental weathering and exposure to the elements. It is resistant to chemical etching, is much harder than factory coatings, will reduce swirl marks and scratches, and has a semi-permanent hydrophobic surface that is much easier to clean, and stays cleaner longer.

How does it work?

**Step 1** Surface layer of factory clearcoat is damaged and contaminated.

**Step 2** Technician decontaminates and polishes clearcoat 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 train for best results.*
NANO-CERAMIC Benefits:

- Two simple steps: Clean and Apply
- Semi-permanent protection of the original surface.
- Our layers are 4 times harder than factory paint.
- UV Ray protection
- Superb protection against corrosion
- Has an outstanding hydrophobic effect, and the surface stays cleaner longer.
- Makes the surface much easier and quicker to clean, and the adhesion of dirt is reduced drastically.
- Hydrophobic, ultra-dry surface application prevents icing.
- Reduced surface friction saves on fuel and energy consumption.
- Cleaning intervals and maintenance costs will be greatly reduced.
- Protection of paint and all hard surfaces, resulting in a higher resale value over time.
Leading in Durability

SI11 Permanent 2-Component  H9+++ (SI12 Matte)
40% More durable/harder, Spray on! (hydrophobic)

SI10 Permanent  H9++
30% More durable/harder than SI07 (non-hydrophobic)

SI12 Diamond  H9+
20% More durable/harder than SI07

SI07 Ultra H9
10% More durable/harder than the average competitor

Easy Ordering

Ready to try NANO-CERAMIC to protect and shine your train?
You can order directly through an authorized dealer near you.
Upon receipt of your order, we will ship the order by the courier of your choice once payment is received.
The Perfect Protection Plan:

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

- **RECOMMENDED**
  - SI10
  - Basecoat
  - Permanent Protection

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

- SIO7 Ultra
  - 3-Year Protection
  - Topcoat
  - Hydrophobic
  - Anti-Scratch

- SI12 Diamond
  - 5-Year Protection
  - Topcoat
  - Hydrophobic
  - Anti-Scratch

- SHRE Re-activating
The Perfect Protection Plan:

- Spray-on/Roll-on 2-Component
  - 20 Years++
  - Permanent Protection
- Shampoo Nano
  - Re-activating

Optional:
- SIO6
  - Glass / Acrylic
  - Windows
- SIFX
  - Interior Sealer
  - Fabrics & Leather
Where to Use Our Coatings:

Regular Maintenance Products

High-End Ceramic Coatings
Our exterior, permanent protection coatings preserve the original finish.

Maintenance Plan:

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
HOW TO USE:
NANO-CERAMIC SIO6 / SIO7 / SI10 / SI14

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

Consumption:
Glass: appr. 2 ml/m²
Steel 2 ml/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 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
Clean the surface thoroughly until it is 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!

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 mini 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 application of the SIO7 or SI12. After 2 hours, SI10 is 80% cured and ready to receive SIO7 or SI12.

Our coatings are anti-corrosion, anti-icing, and have self-cleaning capabilities that can effectively repel water and dirt, making the surface much easier to clean.

Anti-corrosion and anti-icing for winter protection and safety.

NANO-CERAMIC®
THE NEW GENERATION COATINGS
NANO-CERAMIC.COM
APPLICATION OF S107 OR S114

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 S107 or S112 on the mini 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. (To make sure you use the right technique, watch the application video at www.nano-ceramic.com)

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.

Our coatings have super-hydrophobic properties, so even graffiti becomes easy to remove using a pressure washer. Shine and protect aluminum, stainless steel, and paint with an invisible layer that makes the surface scratch-resistant and anti-fingerprint while preserving the original finish.
APPLICATION OF SIO6
Shake the bottle very well before use! Take a soft cotton pad 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.

SIO6 is a superb safety feature for trains and buses. In industry, 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 vehicle windshields to prevent rain droplets from clinging to the glass.

Repels water for 30% better visibility in rainy conditions.
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 shampoo, it reactivates the nano layer and cleans at the same time, without leaving a film of polymers or coloring chemicals behind safe for our environment as well.

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.

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: 41-86°F
- Avoid direct sunlight

Applicators:
Paint Sprayer    Spray Bottle
Long-lasting, anti-bacterial protection for all surfaces.

Si-Multi Maintenance Cleaner
Hydrophobic Disinfectant

Product ID: SIMC0250 250 ml  SIMC1000 1 L
Consumption: +/- 2.5 ml/m²
Used for: Glass, chrome, vinyl, acrylic
Application field: Airports, office buildings, hotels and private housing

Si-Multi Maintenance Cleaner forms invisible, durable molecular bonds while disinfecting. Gives the surface a hydrophobic nano layer.

- High-tech cleaning agents make the surface much easier and quicker to clean.
- Boosts hygiene with antibacterial properties.
- Has an outstanding hydrophobic effect, so the adhesion of dirt will be reduced drastically, keeping the surface cleaner longer.
- Can be used as maintenance cleaner on all nano and non-nano coated surfaces.

Will last up to 3 months.
HOW TO USE:

NANO-CERAMIC SIMC Multi Maintenance Cleaner

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

**Consumption:**
+/- 2.5 ml/m²
Ambient temperature: 5-30°C
Avoid direct sunlight and 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 from any possible damage to your skin.

**EASY APPLICATION: CLEAN, WIPE, BUFF OFF**
Shake the bottles very well before use! Spray 2-3 times on a clean microfiber towel (start with small amounts, as only a little product is necessary). Moisten all the panels evenly. When applied correctly, you can now see a light haze on the surfaces. Polish away the haze using a clean (microfiber) cloth.

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

**Applicators:**

- 40100703 Spray master
Easily remove graffiti in train stations with a pressure washer.

SI11/12  Transparent/Matte
2 - component

Metal / Paint / Fiberglass
Permanent Coating System

Product ID:  : SI11000 1 kg / SI12000 1 kg
Consumption   : +/- 0.016 lbs/ft² (depending on structure)
Used for      : Concrete, mineral stone, metal, wood, fiberglass
               and painted surfaces
Application area : Infrastructure, office buildings,
                  hotels and private housing

SI11 is a permanent, 2-component surface coating system which forms durable molecular bonds with painted and unpainted surfaces, resulting in permanent protection of the original surface.

• Two simple steps: Clean and Apply
• Water and dirt are effectively repelled and easily removed.
• This coating has an outstanding hydrophobic effect.
• On walls or tunnels, cleaning intervals or restoration needs will be greatly reduced.
• Resistant against all kinds of chemicals and UV radiation
• Superior anti-pollution and anti-corrosion coating

Will last for at least 20+ years.

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**HOW TO USE:**

**NANO-CERAMIC SI11-SI12 2-Component Transparent Sprayable**

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

**Consumption:**
Appr. 50-70 gr/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 to use latex or nitrile 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 directly or indirectly on all hard surfaces (porous and non-porous) such as aluminum, steel, wood, acrylic, and paint. The SI11 system is transparent gloss, while SI12 is a matte finish. Treatment will give surfaces a hydrophobic, self-cleaning barrier that will make cleaning easier and less costly, as special cleaners are unnecessary. The original surface will be protected against corrosion, erosion, carbon dioxide permeability, UV radiation, chemical attack, and scratch resistant. The effects of time and exposure to the elements will be significantly lessened.

**Preparation**
First, clean the surfaces thoroughly until 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. The surface must be completely dry before application and must stay dry for 24 hours after application!

**This is a 2-Component Nano Coating System**
Mix one bottle of SI11B-SI12B (250 gr) with one bottle of SI11A-SI12A-SI13A (750 gr) by pouring bottle B into bottle A, or measure exactly by net weight in a ratio of 3:1 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 80 or 200 μm / 0.1 mm or 0.2 mm after drying, depending on your choice of protection for 10 or 20 years. 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. After 24 hours, 85% is cured, and the remaining 15% will be 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 80-120 bar using our biodegradable reactivating shampoo.

**Tool cleaning**
The individual components, as well as the mixing system, can be diluted and cleaned with our Steril Cleaner.

**Safety Paint Suit**

- Full-Face Respirator Mask
- Nitrile Gloves
- Paint Roller (Microfiber)
- Paint Brush (Acrylic)
- Professional Paint Sprayer 0.04 - 0.07” nozzle

*Image of NANO-CERAMIC® THE NEW GENERATION COATINGS NANO-CERAMIC.COM*
Testing Certificates

Permanent Coating System (PCS)

CS Concrete
EN1504-2
Material Safety Data Sheets


Corrosion Test

Uncoated  Coated

Instructions

WATCH THE APPLY VIDEO @ our Website

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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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