Urban Coatings

Anti-Graffiti
Anti Scratch
Anti-Corrosion
Self Cleaning
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

Nano-Ceramic® is flexibel and can handle expansion and deformation such as the flexing of aluminium panels, the coating wont crack, and can't be peeled off.

Nano-Ceramic® is a permanent super gloss, and will give the surface a longlasting showroom condition, no need for waxes or other heavy cleaning agents.

Nano-Ceramic® is completely resistant to acidic environmental substances, as bird droppings, and to oxidation, even by salty water, this unlike factory paints and other 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 harmful substances, and the clean and original surface is maintained.
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 luxery 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 train This is by far the best and most economical 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 train saves on fuel or energy 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.
## Leading in Durability

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Hardness Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>SI11 URBAN Permanent 2-Component H9+++</td>
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</tr>
<tr>
<td>SI10 URBAN Permanent</td>
<td>H9++</td>
</tr>
<tr>
<td>SI12 URBAN Diamond</td>
<td>H9+</td>
</tr>
<tr>
<td>SI07 URBAN Economic</td>
<td>H9</td>
</tr>
</tbody>
</table>

- **What is material nano science?**
  - Wear Coefficient or expected lifetime, $K$
  
  $K = \frac{\text{wear volume}}{\text{normal load}} \times \text{hardness} \times \text{sliding distance}$

## 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](http://www.store.nano.ceramic.com)

Upon receipt of order we will issue an Invoice, and once payment is received we will ship the order by courier of your choice.
The Perfect Scenario Small-Medium Size

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

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

- **SI10** (Recommended)
  - URBAN Basecoat
  - Permanent Protection

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

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

- **Shampoo Nano**
  - Re-activating

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

**URBAN**
Spray on 2-Component
15 Year up to 20 Year++
Permanent Protection

**SI11**

**OPTIONAL**

**SIO6**
Glass / Acrylic
Windows

**SIO9**
Interior Sealer
Fabrics & Leather

**Shampoo Nano**
Re-activating

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**NANO-CERAMIC®**
THE NEW GENERATION COATINGS
NANO-CERAMIC.COM
Where to use our coatings

Regular Maintenance Products

- Scrub
  - Anti-Scratching
  - 250ml/8.5oz 1L/32oz
  - SCRUB0250 SCRUB1000
  - Consumption 2ml/m2 0.06oz/m2
  - All Surfaces

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

- Steril Cleaner
  - 100% Steril
  - 1L/32oz CLEAN01000
  - Consumption 2ml/m2 0.06oz/m2
  - Aluminium Paint Glass

High End Ceramic Coatings

- Ceramic Basecoating
  - H9+ Permanent
  - 100ml/0.32oz 1L/32oz
  - SI100100 SI10100
  - Consumption 2ml/m2 0.06oz/m2
  - Aluminium Paint

- Ceramic Coating H9
  - Hydrophobic
  - 100ml/0.32oz 1L/32oz
  - SI070100 SI070100
  - Consumption 2ml/m2 0.06oz/m2
  - Aluminium Paint

- Ceramic Coating H2
  - Hydrophobic
  - 100ml/0.32oz 1L/32oz
  - SI060100 SI060100
  - Consumption 2ml/m2 0.06oz/m2
  - Glass Acrylic

- Interior Protector
  - Hydrophobic
  - 1L/32oz SI021000
  - Consumption 100ml/2.5m2 3.2oz/2.5m2
  - Fabrics & Leather

NANO-CERAMIC®
THE NEW GENERATION COATINGS
NANO-CERAMIC.COM
Our exterior permanent protection coating preserve the clearcoat underneath.

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

NANO-CERAMIC®

THE NEW GENERATION COATINGS

NANO-CERAMIC.COM
HOW TO USE:
NANO-CERAMIC® SIO6 SI07 SI10

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.

RECOMMDATION
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, divide 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 it carefully, using two separate micro towels for this. Wait 2 hours before you continue with the application of the SIO7. 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.

Anti-corrosive and anti-icing are two main advantages during winter time.

Our coating is anti-corrosive and anti-icing and has self cleaning capabilities and are safe to use on all glass and acrylic surfaces. Icing problems are still the main issues of delays in winter time.
APPLICATION SIO7
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 deviding 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 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 devide it properly and it will roll up on eachother and form a not equal layer. To use too 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.
SIO6 is a superb feature for trains. 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 SIO6
Shake the bottles very well before use! Take a soft cotton pad and pour a few drops of the coating on it (start with small amounts, there is only very little product needed). Moisten all the Glass -or Wood panels evenly 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 (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.
SI11 Heavy Duty
2 - Component
Paint / Steel Protector Line
Sprayable

Article Nr: SI11000 1KG / 2.205 lbs
Consumption +/- 50gr/m² / 2oz/m²
Used for painted surfaces, metal, glass
Application area heavy machinery

SI13 is an ultra long lasting 2-component surface coating which bonds molecularly 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 ++
HOW TO USE:

NANO-CERAMIC® SI11 Transparent 2 - Component Sprayable

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 100% transparent and breathable. The surface 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 sealant 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!

This is a 2-Component Nano Coating System

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.

Consumption:

Stone: appr. 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:

Cat sprayer 0.04 - 0.07” nozzle
1.00 -1.50 mm nozzle

Chemical Full Face Respirator Mask
Nitrile Gloves
Paint Roller (Polyurethane)
Brush (Polyurethane)
Cotton Cloth Applicator

Safety Paint Suit

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

Consumption:

Stone: appr. 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:
SIO9 is an flexible invisible layer what connect to canvas, fabric and leather surfaces its super hydrophobic (repels water) and gives dirt less change to penetrate into the treated surfaces.

How to use our Fabrics and Leather Sealant SIO9:

**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 bound 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 formade 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

**Applicators:**
- Paint sprayer
- Spray master
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 3 months

Multi Cleaner
SIMC 250 ml / 8oz / 1L 32oz
Applicator
- Microtowel
How to use
- See page 18

unbreakable bottles
hydrophobic water & oil repellent
disinfectant
self cleaning
cuts cleaning time 90%
cleaner for longer
visibility safety anti fog

Longlasting bacterial protection for all surfaces with anti-fog effect.
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 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-WIHIPE-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

Only a very little amount is needed to clean and protect a complete lavatory
SI11 2 - Component

Stone / Concrete Protector Line

Article Nr: SI111000 1KG / 2.205 lbs

Consumption: +/- 50gr/m² 2oz/m² depending structure

Used for: stone, mineral stone, concrete

Application area: infrastructure, office buildings, hotel and private housing

SI11 is an ultra long lasting 2-component surface coating which bonds molecularly and permanently onto the surface.

- Two simple steps Clean- and Apply
- Water and dirt get less change to penetrate, and graffiti is easy to remove.
- This coating has an outstanding hydrophobic effect.
- On walls or tunnels cleaning intervals, or restoration will be greatly reduced.

Coating:
- SI111000 2 Component:
  - A = 850gr
  - B = 150gr

Prepare and Clean:
- Shampoo 1 Litre

How to use:
- See page 20

Undergrounds and train stations are often the places where graffiti find place.
**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 100% transparent and breathable. The surface 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.

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This is a 2-Component Nano Coating System

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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 cannot be stored longer than 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.

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**How to use:**

NANO-CERAMIC® SI11 Transparent 2 - Component Sprayable

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

**Consumption:**

Stone: appr. 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:**

- Safety Paint Suit
- Chemical Full Face Respirator Mask
- Nitrile Gloves
- Paint Roller (Polyurethane)
- Brush (Polyurethane)
- Cotton Cloth Applicator
- Cat sprayer 0.04 - 0.07" nozzle
  1.00 - 1.50 mm nozzle

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Applicators:
Testing Certificates

Permanent Coating System (PCS)

CS Concrete
EN1504-2
Material Safety Data Sheets

Corrosion Test

Instructions

WATCH THE APPLY VIDEO @ our Website

Nano-Ceramic® The New Generation Coatings Nano-Ceramic.com
Do you know?
That our coatings are made
of pure silica sand which is
the most common element
on earth?

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