Permanent Coating System
What makes NANO-CERAMIC Permanent Coating System so durable?

NANO-CERAMIC permanent coating system is the latest generation of protective coating which transforms paint into a hard ceramic, providing superior scratch resistance and near-permanent protection for all exterior or interior surfaces.

NANO-CERAMIC permanent coating system is 600°F resistant and more than 4 times stronger than traditional acrylic based paint finishes, and is effectively preventing damage that would otherwise affect the appearance and integrity of the original surface.

Zero Maintenance for decades to come!

Our NANO-CERAMIC permanent coating system is rigorously tested by an independent testing laboratory according to the European standard for outdoor paints (EN 1504-2) as per test report page 16-27 as here below.

Can NANO-CERAMIC Permanent Coating System be applied on any surface?

The NANO-CERAMIC permanent coating system can be applied directly or indirectly on all kinds of interior and /or exterior surfaces (absorbing and non-absorbing), such as concrete, steel, wood, acrylic, gypsum and many more.

Is NANO-CERAMIC Permanent Coating System self-cleaning?

NANO-CERAMIC permanent coating system provides a permanent hydrophobic surface that is self cleaning, easier to clean and stays cleaner longer as water and dirt can not penetrate the ceramic layer. NANO-CERAMIC permanent coating system is resistant to water vapor and water absorption.
Cities are getting hotter today by climate change.

Can NANO-CERAMIC Permanent Coating System cool down your house??

NANO-CERAMIC revolutionary **Coolest White Paint** has superb reflective properties of about 80% of the sun rays. Our **Coolest White Paint** shields your house by blocking sunlight (passive cooling by +/- 42°F), which effectively can reduce annual electricity cost and greenhouse gases.

Our high tech reflective **Coolest White Paint** cools down the heat which means less air-conditioning. NANO-CERAMIC **Coolest White Paint** has an extremely high TSR value (Total Solar Reflectance) of 80.

Is NANO-CERAMIC Permanent Coating System available in colors?

NANO-CERAMIC permanent coating system is available in transparent and in white. Both can be tinted via our custom made computerized software program and color-tinting-machine.

NANO-CERAMIC high performance color coating provides excellent brilliance and color strength characterized by a perfect pigment dispersion. The dispersed particles in the formulations are selected without any compromise on quality.

A color card is available showing most common colors used for many applications like architectural, marine, wood varnish and many more.

Other paints are simply not suitable for longterm harsh outdoor environments.

In order to avoid poorly maintained properties (concrete rot, chipped and weathered paint, etc) for the next decades, our Permanent Coating System is simply the best solution to keep the value of your investment in place.
Quality Comparison with traditional paints

In case written in bold font color it means existing shortcomings in quality.

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Acrylic Latex Wall</th>
<th>Epoxi Flooring</th>
<th>Polyurethane Waterproofing</th>
<th>SI11/SI12</th>
<th>SI13/SI15</th>
</tr>
</thead>
<tbody>
<tr>
<td>Easy to Apply</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Apply Floor</td>
<td>No</td>
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<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>Apply Walls</td>
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<td>Apply Rooftop</td>
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<tr>
<td>Apply Concrete</td>
<td>Yes</td>
<td>Only Floor</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>Apply Steel</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Apply Wood</td>
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<td>No</td>
<td>No</td>
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<tr>
<td>Apply Gypsum</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>Apply Plastics/Epoxy Primer</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Moisture Sensitivity if Applicable</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<td>Yes</td>
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<tr>
<td>Adhesion Strength</td>
<td>Yes</td>
<td>Poor</td>
<td>Good</td>
<td>Poor</td>
<td>Excellent</td>
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<tr>
<td>Cross Cut Test</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>Abrasion Resistance</td>
<td>Poor</td>
<td>Poor</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
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<tr>
<td>UV Radiation Resistance</td>
<td>Average</td>
<td>Poor</td>
<td>Good</td>
<td>Excellent</td>
<td>Excellent</td>
</tr>
<tr>
<td>Artificial Atmospheric Agents</td>
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<td>Good</td>
<td>Good</td>
<td>Excellent</td>
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<tr>
<td>Colour Stability</td>
<td>Good</td>
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<td>Good</td>
<td>Excellent</td>
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<tr>
<td>Chemical Resistance</td>
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<tr>
<td>Severe Chemical Attack</td>
<td>Poor</td>
<td>Average</td>
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<tr>
<td>Temperature Resistance</td>
<td>196°F</td>
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<tr>
<td>Thermal Shock Resistance</td>
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<tr>
<td>Carbon Dioxide Permeability</td>
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<td>Permeability water vapour</td>
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<td>Water Absorption Resistance</td>
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<td>3%</td>
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<td>Aging at 70°C</td>
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<td>Adhesion Strenght Pull-off</td>
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<tr>
<td>Anti Paint Cracking</td>
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<td>Excellent</td>
<td>Excellent</td>
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<td>Impact Resistance</td>
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<tr>
<td>Anti-Corrosion</td>
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<td>Anti-Termite (Wood)</td>
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<td>No</td>
<td>No</td>
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<tr>
<td>Anti-Algebra</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Anti-Pollution</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
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<tr>
<td>Hydrophobic Self Cleaning</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Easy to Clean</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Total Solar Reflectance (TSR)</td>
<td>60</td>
<td>Only Floor</td>
<td>60</td>
<td>88</td>
<td>20+/25+/30+</td>
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<tr>
<td>Lifetime Years</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>15</td>
<td>20+/25+/30+</td>
</tr>
</tbody>
</table>
Cross Section of Coating System

SI11 Ceramic Coating Transparent
SI12 Ceramic Coating Matte

SI11 Ceramic Coating Transparent
SI13 Ceramic Paint Coolest White
SI15 Ceramic Paint Coolest White

Epoxy/Polyester
Acrylic
Polyurethane

Zinc Rich Primer
(if corrosive circumstances)

Conventional paint

Conventional gelcoats are a mixture with Epoxy or polyester resins, of which the quality of resin and pigments are the most important factor in the ultimate strength.

Most have a lifespan of 15 years, with hardness and color retention (sun fading) being the most common problems in keeping the desired object at an aesthetically pleasing level.

QUV Accelerated Testing (ASTM D4587)

Color Retention

Gloss Retention
SI15 1-Component (1K)

Ceramic Paint Coolest White for all types of surfaces

Article Nr: SI152250 75oz / 9.9 lbs
Consumption: +/- 0.06 lbs / ft² (depending on structure)
Minimal thickness 0.008” 20 Year+
Reachable area: 160ft²
Hardness: H7

Used for: The SI15 system can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, indoors, or outdoors

Application area: Buildings, airports, offshore structures, bridges, tunnels, hotels, private housing, etc.

SI15 is an incredibly strong 1-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating has an outstanding hydrophobic effect.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C suitable for making walls fire retardant and to make rooftops waterproof

Will last permanently for up to 20 year+.
Chemical + Temperature Resistant (600°F)
SI13 2-Component (2K)

Ceramic Paint Coolest White
for all types of surfaces

Article Nr: SI132500 85oz / 11 lbs
Consumption: +/- 0.06 lbs / ft² (depending on structure)
Mineral thickness 0.008” 25 Year+
Reachable area: 180ft²
Hardness: H8
Used for: The SI13 system can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, indoors, or outdoors
Application area: Buildings, airports, offshore structures, bridges, tunnels, hotels, private housing, etc.

SI13 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

• Easily repels water, dirt, dust, and pollutants.
• This coating has an outstanding hydrophobic effect.
• Restores damaged finishes and reduces cleaning intervals.
• Resistant to all kinds of chemicals and UV radiation.
• Superior anti-pollution and anti-corrosion properties.
• This coating can withstand temperatures of 300°C suitable for making walls fire retardant and to make rooftops waterproof

Will last permanently for up to 25 year+.

NANO-CERAMIC®
THE NEW GENERATION COATINGS
NANO-CERAMIC.COM
Passive Cooling - Isolating
SI12 2-Component (2K)

Ceramic Coating Transparent for Matte surfaces

<table>
<thead>
<tr>
<th>Article Nr:</th>
<th>SI121000 34oz / 2.8 lbs Transparent Matte</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumption</td>
<td>+/- 0.08 lbs / ft²</td>
</tr>
<tr>
<td></td>
<td>Minimal thickness 0.008&quot; 30-Year+</td>
</tr>
<tr>
<td>Reachable area</td>
<td>1L/30ft² (Covered)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>20</td>
</tr>
<tr>
<td>Hardness</td>
<td>H9</td>
</tr>
<tr>
<td>Used for</td>
<td>The system can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, indoors, or outdoors.</td>
</tr>
<tr>
<td>Application area</td>
<td>Buildings, airports, offshore structures, bridges, tunnels hotels, private housing, etc.</td>
</tr>
</tbody>
</table>

SI12 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating has an outstanding hydrophobic effect.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C. suitable for making walls fire retardant and is most best solution to make rooftops waterproof

Will last permanently for up to 30 years+. 

Near-permanent
Anti-corrosion
Super hydrophobic
Anti-pollution
Anti-termite
Anti-algae
UV protection
Self-cleaning
Stays cleaner longer
Super Strong - Self Cleaning
SI11 2-Component (2K)

Ceramic Coating Transparent for Glossy surfaces

**Article Nr:**
- SI11000 34oz / 2.8 lbs Transparent Gloss
- SI112000 85oz / 5.7 lbs Transparent Gloss

**Consumption:**
- +/- 0.08 lbs / ft²
  
  Minimal thickness 0.008" 30-Year+

**Reachable area**
- 34oz/30ft²  85oz/120ft² (Covered)

**Viscosity:**
- 20

**Hardness:**
- H9

**Used for:**
- The system can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, indoors, or outdoors.

**Application area:**
- Buildings, airports, offshore structures, bridges, tunnels, hotels, private housing, etc.

SI11 is an incredibly strong 2-component paint system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in permanent protection of the surface.

Three simple steps: Clean, Dry, and Apply.

- Easily repels water, dirt, dust, and pollutants.
- This coating has an outstanding hydrophobic effect.
- Restores damaged finishes and reduces cleaning intervals.
- Resistant to all kinds of chemicals and UV radiation.
- Superior anti-pollution and anti-corrosion properties.
- This coating can withstand temperatures of 300°C. suitable for making walls fire retardant and is most best solution to make rooftops waterproof

Will last permanently for up to 30 years+.
Super Strong - Anti-Corrosion
4 High Tech Coatings “Do The Job Right”

System Transparent Permanent
for glossy and / matte surfaces
SI111000 (2K) / SI112000 (2K)
34oz / 2.3 lbs
Minimal thickness:
0.008 inch
Reachable area:
1ft² 0.08lbs
30ft² (covered)
Expected Lifetime:
30 Year+ (repaintable)

System White Permanent
color through the color card
SI132500 (2K)
85oz / 11.0 lbs
Minimal thickness:
0.008 inch
Reachable area:
1ft² 0.06lbs
180ft² (covered)
Expected Lifetime:
25 Year+ (repaintable)

System Transparent Permanent
for glossy surfaces
SI122500 (2K)
85oz / 5.7 lbs
Minimal thickness:
0.008 inch
Reachable area:
1ft² 0.06lbs
30ft² (covered)
Expected Lifetime:
30 Year+ (repaintable)

System White Permanent
color through the color card
SI152250 (1K)
55oz / 9.9 lbs
Minimal thickness:
0.008 inch
Reachable area:
1ft² 0.06lbs
165ft² (covered)
Expected Lifetime:
20 Year+ (repaintable)
Tint your desired color at our store
Residential Coolest White with Maximum Reflection

Check our color chart for more available colors

**Exterior**
- Cream
- Extra
- Moonlight
- Cloud
- Pure
- Navajo
- Alien
- Promes
- Simply
- Dove

**Interior**
- Simply
- Heron
- Lace
- Pure
- Oxford
- Alien
- Dove
- Coffee
- Blaster
- Paper
- Extra
- Decor
- Varnish Mahogany
  - Light
  - Antigue
  - Early American
  - Colonial
- Teal
  - Nut Brown
  - Teak
## Military, Marine, Trendy and Industrial

<table>
<thead>
<tr>
<th>Military</th>
<th>Battleship Grey</th>
<th>Black</th>
<th>NATO Green</th>
<th>White</th>
<th>Admiralty Grey</th>
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</thead>
<tbody>
<tr>
<td>Desert Sand</td>
<td>Beige Camo</td>
<td>Dark Grey Camo</td>
<td>Dark Brown Camo</td>
<td>Olive Drab</td>
<td>Very Dark Drab</td>
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<tr>
<td>Light Stone</td>
<td>Bronze Green</td>
<td>Brunswick Green</td>
<td>Dark Sea Grey</td>
<td>RAF Blue / Grey</td>
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<table>
<thead>
<tr>
<th>Marine</th>
<th>White 3175</th>
<th>Semi-Gloss White 3106</th>
<th>Blue Glow White 3176</th>
<th>Mediterranean 3184</th>
<th>Hatteras Off-White 3108</th>
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<tr>
<td>Hatteras Cream 3208</td>
<td>Bronze Green</td>
<td>Brunswick Green</td>
<td>Dark Sea Grey</td>
<td>RAF Blue / Grey</td>
<td>Seattle Gray 3715</td>
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<tr>
<td>Light Stone</td>
<td>Blue Ice 3213</td>
<td>Sea Foamgreen 3333</td>
<td>Jade Green 3348</td>
<td>Lady Yellow 3456</td>
<td>Steel Gray 3720</td>
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<td>Sandstone 3518</td>
<td>Grand Banks 3512</td>
<td>Fire Red 3624</td>
<td>Burgundy 3626</td>
<td>Platinium 3711</td>
<td>Black 3801</td>
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<table>
<thead>
<tr>
<th>Trends</th>
<th>Carneo Blue</th>
<th>Blue Shell</th>
<th>Fort</th>
<th>Scroll</th>
<th>Red Ochre</th>
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<tbody>
<tr>
<td>Ohai Half</td>
<td>Cobbler</td>
<td>Sea Creature</td>
<td>Hidden Depths</td>
<td>Auburn Flair</td>
<td>Beggar</td>
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</tbody>
</table>

| Industrial         | J.D. Yellow | I.H. Red | Matte Black | Caterpillar Yellow | J.J.D. Green |

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How to use our Permanent Coating System:

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

**Processing Temperature:**
Ambient temperature: 41-86°F
Avoid direct sunlight, Rain and/or high humidity.

**IMPORTANT:**
Before you use a NANO-CERAMIC product, please make sure you wear suitable protection gear. We always recommend using a paint suit, respirator mask and latex or nitrile gloves.

**Application information**
The SI11/SI12/SI13/SI15 coatings can be applied directly or indirectly on all surfaces (porous and non-porous) such as concrete, steel, wood, acrylic, gypsum, painted or unpainted surfaces, indoors, or outdoors. The surface underneath will be superbly protected against erosion and corrosion and will stay cleaner longer. Cleaning becomes quicker, easier, and less expensive, as special cleaning agents are unnecessary.

**Preparation**
Make sure the surface is free from any contamination and dirt. A zinc rich primer can be used in case of problems with the substrate.

**Warning** the surface must be completely dry before application and must stay dry for 6 hours after application after application!

**The 2-Component Permanent Coating System**
Mix the can SI11B-SI12B with the can of SI11A-SI12A by pouring can B into can A, or measure exactly by net weight in a ratio of 7:3 and mix very well. Mix the can of SI13B with the can of SI13A by pouring can B into can A, or measure exactly by net weight in a ratio of 9:1 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 200 μm / 0.0.8” after drying. 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. It is touch-dry in 1 hours, after 4 hours, 85% cured, and the remaining 15% (transformation into ceramics) is 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 bar using our biologically degradable Reactivating Shampoo.

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

**Outfit/Applicators:**

- Paint Suit
- Nitrile gloves
- Professional Paint Sprayer 1.3-1.7mm / 0.05-0.06” nozzle
- Paint Roller (Microfiber)
- Respirator
- Paint Brush (acrylic)
- Fresh Air Respirator
E-Warranty

NANO-CERAMIC quality assurance and reliability are guaranteed with SI11/SI12 SI13/SI15 for 10 years if applied with a minimal thickness of 0.08 mm. This limited product warranty covers the purchaser of SI11/SI12 SI13/SI15 for use on new building applications when professionally installed by one of our approved installers on new paint on concrete walls only, against discoloration, peeling, or delaminating. There is no warranty caused by surface/concrete cracks. All claims caused by cleaning chemicals other than our NWAS / SHRE Shampoo will be rejected. Warranty is only valid if it is registered by one of our approved installers via our E-Warranty registration form on our website.
There is no better option than to use NANO-CERAMIC!

Did you know?
That our coatings are made of pure silica sand, which is the most common element on Earth?

Dealer