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 300°C 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 19 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 buildings??

NANO-CERAMIC revolutionary Coolest White Paint has superb reflective properties of about 80% of the sun rays. Our Coolest White Paint shields buildings by blocking sunlight (passive cooling by +/- 6°C), 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.

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.

Superior in Color & Gloss Retention
A special selection of high grade tinting chemicals computerized dispersed in a superior ceramic resin.

Conventional gelcoats are a mixture with Epoxy or Polyurethane 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, color and gloss retention (sun fading) and manual mixing towards consistent quality being the most common problems in keeping the desired object at an aesthetically pleasing level.

Quality Comparison with traditional coating/paints.

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

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Acrylic</th>
<th>Epoxi</th>
<th>Polyurethane</th>
<th>Ceramic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Primer</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Adhesion Strength</td>
<td>Poor</td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
</tr>
<tr>
<td>Cross Cut Test</td>
<td>Poor</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Abrasion Resistance</td>
<td>Poor</td>
<td>Good</td>
<td>Poor</td>
<td>Excellent</td>
</tr>
<tr>
<td>UV Radiation Resistance</td>
<td>Average</td>
<td>Poor</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Artificial Atmospheric Agents</td>
<td>Poor</td>
<td>Good</td>
<td>Average</td>
<td>Excellent</td>
</tr>
<tr>
<td>Colour Retention</td>
<td>Poor</td>
<td>Good</td>
<td>Poor</td>
<td>Excellent</td>
</tr>
<tr>
<td>Gloss Retention</td>
<td>Good</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Chemical Resistance</td>
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<td>Average</td>
<td>Poor</td>
<td>Excellent</td>
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<tr>
<td>Severe Chemical Attack</td>
<td>91°C</td>
<td>177°C</td>
<td>263°C</td>
<td>300°C</td>
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<tr>
<td>Temperature Resistance</td>
<td>Good</td>
<td>Poor</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>Poor</td>
<td>Good</td>
<td>Average</td>
<td>Excellent</td>
</tr>
<tr>
<td>Carbon Dioxide Permeability</td>
<td>Average</td>
<td>Good</td>
<td>Good</td>
<td>Excellent</td>
</tr>
<tr>
<td>Permeability water vapour</td>
<td>1%</td>
<td>2%</td>
<td>3%</td>
<td>0%</td>
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<tr>
<td>Water Absorption Resistance</td>
<td>Poor</td>
<td>Good</td>
<td>Average</td>
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<tr>
<td>Aging at 70°C</td>
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<td>Good</td>
<td>Poor</td>
<td>Excellent</td>
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<td>Adhesion Strengt Pull-off</td>
<td>Average</td>
<td>Good</td>
<td>Poor</td>
<td>Excellent</td>
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<tr>
<td>Impact Resistance</td>
<td>No</td>
<td>No</td>
<td>No</td>
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<tr>
<td>Anti-Graffiti</td>
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<td>No</td>
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<tr>
<td>Anti-Termite (Wood)</td>
<td>No</td>
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<tr>
<td>Hydrophobic Self Cleaning</td>
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<td>No</td>
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<tr>
<td>Easy to Clean</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Total Solar Reflectance (TSR)</td>
<td>60 (white)</td>
<td>60 (white)</td>
<td>60 (white)</td>
<td>88 (white)</td>
</tr>
<tr>
<td>Expected Lifetime inYears</td>
<td>&lt;7</td>
<td>&lt;15</td>
<td>&lt;15</td>
<td>30+</td>
</tr>
</tbody>
</table>
Ceramic Coating & Paint System

Zinc Rich Primer
(Steel/Aluminium Surfaces)
Primer should pass the ASTM D3359 adhesion test.5.

2K Paint White

[SI14] Antifouling
8 Years+ Protection

2K Transp Matte
[SI12] Topcoat
30 Years+ Protection

[SI13] Exterior
25 Years+ Protection

2K Transparant
[SI11] Topcoat
30 Years+ Protection

1K Paint White
[SI15] Interior
20 Years+ Protection

or
**SI11**  2-Component (2K)

**Ceramic Coating Transparent**  
for Glossy surfaces

**Article Nr:**  
: SI111000  1L / 1.050 gr Transparent Gloss  
: SI112500 2.5L / 2.600gr Transparent Gloss

**Consumption**  
: +/- 350gr / m²  
Minimal thickness 0.20 mm 30-Year+

**Reachable area**  
: 1L/3m²  2.5L/8m² (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 is permanent hydrophobic.
- 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.

Near-permanent  
Anti-corrosion  
Permanent hydrophobic  
Anti-pollution  
Anti-algae  
UV protection  
Self-cleaning  
Stays cleaner longer  
Impact Resistance  
1kg / 2lbs  
Thermal Shock-Resistant
Super Strong - Anti-Corrosion
SI12 2-Component (2K)

Ceramic Coating Transparent for Matte surfaces

| Article Nr: | SI121000 1L / 1.050 gr Transparent matte |
| Consumption | +/- 350gr / m²                                |
|            | Minimal thickness 0.20 mm 30-Year+          |
| Reachable area | 1L/3m²  2.5L/8m² (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. |

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 is permanent hydrophobic.
- 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+.  

NANO-CERAMIC®  THE NEW GENERATION COATINGS  NANO-CERAMIC.COM
Super Strong - Self Cleaning
SI13 2-Component (2K)

Ceramic Paint White
for all types of surfaces

Article Nr: SI132500  2.5L / 5.000 gr
Consumption: +/- 280gr / m² (depending on structure)
  Minimal thickness 0.20 mm  25 Year+
Reachable area: 18m²
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 is permanent hydrophobic.
• 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+.
Passive Cooling - Isolating
SI14 2-Component (2K)

Ceramic Paint White
for all types of surfaces

Article Nr: SI142500 2.5L / 5.000 gr
Consumption: +/- 280gr / m² (depending on structure)
  Minimal thickness 0.20 mm  25 Year+
Reachable area: 18m²
Hardness: H7
Used for: Gelcoat, fiberglass, steel, aluminium, plastics, wood
Application area: Marine Antifouling

SI14 is a super strong strong and sleek 2-component antifouling system which forms a durable matrix of molecular bonds (transformation to ceramic) resulting in a superior 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.
- Resistant to all kinds of chemicals and UV radiation.
- This coating can withstand temperatures of 300°C

Will last semi-permanent for up to 8 year+.
Super Sleek - Slim Release
**SI15**  1-Component (1K)

**Ceramic Paint White**  
for all types of surfaces

**Article Nr:**  SI152250  2.25L / 4.500kg  
**Consumption:**  +/- 280gr / m² (depending on structure)  
Minimal thickness 0.20 mm  20 Year+  
**Reachable area:**  16m²  
**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 is permanent hydrophobic.  
- 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 (300°C)
2 High Tech Coatings and 3 Paints for all Jobs

System Transparent Permanent for glossy and matte surfaces
SI111000 (2K) / SI112000 (2K)
1L / 1.050 gr
Expected Lifetime:
30 Year+ (repaintable)

System Transparent Permanent for glossy surfaces
SI122500 (2K)
2.5L / 2.600 gr
Expected Lifetime:
30 Year+ (repaintable)

System White Permanent color through the color card
SI132500 (2K)
2.5L / 5.000 gr
Expected Lifetime:
25 Year+ (repaintable)

Total Solar Reflectance (TSR) 88%

System White Permanent color through the color card
SI151000 (1K)
2.25L / 4.500 gr
Expected Lifetime:
20 Year+ (repaintable)
Tint your desired color at your place

System White Permanent
color through the color card
SI151000 (1K)
2.25L / 4.500 gr

Expected Lifetime:
20 Year+ (repaintable)
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: 5-30°C
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-SI14B with the can of SI13A-SI14B 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 100-200 μm / 0.1-0.2mm 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.
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 0.20 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!

The Leader in Durability

Did you know?

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