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 mentioned in our separate test report.

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 +/- 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 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>Poor</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>Average</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Artificial Atmospheric Agents</td>
<td>Poor</td>
<td>Good</td>
<td>Average</td>
<td>Poor</td>
</tr>
<tr>
<td>Colour Retention</td>
<td>Poor</td>
<td>Good</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Gloss Retention</td>
<td>Good</td>
<td>Average</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>Poor</td>
<td>Poor</td>
<td>Poor</td>
<td>Excellent</td>
</tr>
<tr>
<td>Severe Chemical Attack</td>
<td>Poor</td>
<td>Average</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Temperature Resistance</td>
<td>Poor</td>
<td>Good</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Thermal Shock Resistance</td>
<td>91°C</td>
<td>177°C</td>
<td>Good</td>
<td>Poor</td>
</tr>
<tr>
<td>Carbon Dioxide Permeability</td>
<td>Average</td>
<td>Good</td>
<td>Average</td>
<td>Average</td>
</tr>
<tr>
<td>Permeability water vapour</td>
<td>1%</td>
<td>2%</td>
<td>3%</td>
<td>0%</td>
</tr>
<tr>
<td>Water Absorption Resistance</td>
<td>Poor</td>
<td>Good</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Aging at 70°C</td>
<td>Average</td>
<td>Good</td>
<td>Average</td>
<td>Excellent</td>
</tr>
<tr>
<td>Adhesion Strenght Pull-off</td>
<td>Average</td>
<td>Good</td>
<td>Poor</td>
<td>Poor</td>
</tr>
<tr>
<td>Impact Resistance</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Excellent</td>
</tr>
<tr>
<td>Anti-Graffiti</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Anti-Termite (Wood)</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Hydrophobic Self Cleaning</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>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 in Years</td>
<td>&lt;7</td>
<td>&lt;15</td>
<td>&lt;15</td>
<td>30+</td>
</tr>
</tbody>
</table>
4 High Tech Coatings/Paints for All Jobs

Topcoat Transparent
For glossy surfaces
SI111000 (2K) 30 Year+
1L / 1.050 gr

Topcoat Transparent / Colorable
For glossy surfaces
SI112500 (2K) 30 Years+
2.5L / 2.600 gr

Topcoat Transparent Matte
For matte surfaces
SI112000 (2K) 30 Years+
1L / 1.050 gr

Exterior Paint Coolest White / Colorable
Color through the color card
SI132500 (2K) 25 Years+
2.5oz / 5.000 gr

Interior Paint Coolest White / Colorable
Color through the color card
SI152250 (1K) 20 Years+
2.25L / 4.500 gr

Zinc Rich Primer
Only to be used in corrosive conditions, or in case of problems with the substrate
(Steel/Aluminium Surfaces)
Primer should pass the ASTM D3359 adhesion test.

Tinting Colors
Did you know that light colors are
1) more stronger
2) more heat reflective
3) more cheaper
than dark colours?

NANO-CERAMIC®
The New Generation Coatings
NANO-CERAMIC.COM
SI11 2-Component (2K)

Topcoat Transparent for Glossy surfaces

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

Consumption:
- Concrete +/- 350 gr / m²
- Steel +/- 175 gr / m²

Reachable area:
- Concrete 1L/3m² 2.5L / 8m² 200 micron (Covered)
- Steel 1L/6m² 2.5L/15m² 100 micron (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

Will last permanently for up to 30 years+.
Chemical Resistant - Anti-Corrosion
SI12 2-Component (2K)

Topcoat Transparent Matte
for Matte surfaces

- **Article Nr:** SI121000 1L / 1.050 gr Transparent matte
- **Consumption**:
  - Concrete +/- 350gr / m²
  - Steel +/- 175gr / m²
- **Reachable area**:
  - Concrete 1L/3m² 200 micron (Covered)
  - Steel 1L/6m² 100 micron (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+.
Super Strong - Permanent Hydrophobic
SI13 2-Component (2K)

Exterior Paint Coolest White for all types of surfaces

Article Nr. : SI132500 2.5L / 5.000 gr White
Consumption : Concrete +/- 280gr / m²
Steel +/- 185gr / m²
Reachable area : Concrete 18m² 200 micron (Covered)
Steel 27m² 100 micron (Covered)
Viscosity : 20
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 is most best solution to make rooftops waterproof

Will last permanently for up to 25 year+

NANO-CERAMIC® THE NEW GENERATION COATINGS NANO-CERAMIC.COM
Passive Cooling - Energy Saving
SI15 1-Component (1K)

Interior Paint Coolest White
for all types of surfaces

Article Nr: SI152500 2.5L / 4.500 gr White
Consumption: Concrete +/- 280gr / m²
Steel       +/- 185gr / m²
Reachable area: Concrete 16m² 200 micron (Covered)
Steel    24m² 100 micron (Covered)
Viscosity : 20
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 is most best solution to make rooftops waterproof

Will last permanently for up to 20 year+.
Chemical + Temperature Resistant (300°C)
How to use our Permanent Coating System:

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

**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 / 0.2mm 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.

**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)
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?