Nano Coatings for Automotive Care

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Hydrophobic Nano Coating for Car Glass

Invisible Wiper

The product is made by a new generation of Nano SiO2 and special chemical formulation to provide car glass hydrophobic, oleophobic, and non-stick (easy clean) properties. Driving in the rain, it can keep windshield fairly clean and highly increase visibility and driving safety. Due to having solid chemical bonding with glass substrate and a special nano grade surface structure, the coating is highly durable and invisible. Moreover, it can withstand abrasion resistance, chemical resistance, high temperature resistance, and UV radiation resistance.

Main Features

- Hydrophobic and oleophobic properties
- Strong non-stick property – Easy clean and save cleaning time.
- Protect car painting from environmental corrosion, abrasion, and pollution
- High transparency and no influence on the appearance of car painting
- Chemical resistance (up to pH-value of 13)
- Abrasion resistance
- High Temperature resistance
- Easy coat and re-coat (Hardening at room temperature. No additional energy or UV light required)
- Highly durability – up to 2 years in most conditions
- Green and Eco

Main Application

- Rearview Mirror
- Window
- Windshield
- Rearview Mirror

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Nano Coating for Car Body Protection and Anti-fouling
To Replace Traditional Car Wax

The product is made by Nano Silica (SiO2) to protect car painting from environmental damage, which is mainly caused by acid rain, cleaning agent, washing abrasion, UV irradiation, and air pollution. After coating the product on car body, it can create a breathable and transparent nano film to have non-stick and easy clean properties. Due to having solid chemical bonding with substrate and special nanotechnology process for inorganic materials, the film is highly durable and can withstand abrasion resistance, chemical resistance, high temperature resistance, and UV radiation resistance.

**Main Features**
- Hydrophobic and oleophobic properties
- Strong non-stick property – Easy clean and save cleaning time.
- Protect car painting from environmental corrosion, abrasion, and pollution
- High transparency and no influence on the appearance of car painting
- Chemical resistance (up to pH-value of 13)
- Abrasion resistance
- High Temperature resistance
- Easy coat and re-coat (Hardening at room temperature. No additional energy or UV light required)
- Highly durability – up to 1 years in most conditions
- Green and Eco

**Coating Coverage**
Manual: 7mL/m² (sqm)

**Main Application**
- Car lamp cover
- Car painting

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Nano Coating for Car Wheel Rims

2 Years lifetime for Anti-fouling & Easy Clean

The product is made by Nano Silica (SiO2) to have less contact with dirt, muddy water, oil, and other pollution. After coating the product on car wheel rims, it can create a transparent nano film to have non-stick and easy clean properties. Due to having solid chemical bonding with substrate and special nanotechnology process for inorganic materials, the film is highly durable and having the properties of abrasion resistance, chemical resistance, high temperature resistance, and UV radiation resistance.

**Main Features**
- Hydrophobic and oleophobic properties
- Strong non-stick property – Easy clean and save cleaning time.
- Protect car wheel rims from environmental corrosion, abrasion, and pollution
- High transparency and no influence on the appearance of car wheel rims substrate
- Chemical resistance (up to pH-value of 13)
- Abrasion resistance
- High temperature resistance
- Easy coat and re-coat (Hardening at room temperature. No additional energy or UV light required)
- Highly durability – up to 2 years in most conditions
- Green and Eco

**Coating Coverage**
Manual: 7mL/m² (sqm)

**Main Application**
- Nano Coating for Car Wheel Rims
- 2 Years lifetime for Anti-fouling & Easy Clean
Anti-fouling Nano coating for Car interior Absorbent Surface
Lotus Effect -- Keep the surface always Clean

The product, made by a new generation of nano SiO2 and special chemical formulation, is mainly used for anti-fouling, waterproof, easy clean and surface protection for car interior absorbent surface. After coating on surface, Nano SiO2 particles can create an invisible and breathable nano film (thickness around less than a hundred nanometer). All type of pollutants on coated surface can be easily removed due to having lotus effect on the film. Moreover, the film is highly durable (30 times standard washing machine washable) and can withstand abrasion resistance, chemical resistance, high temperature resistance, and UV radiation resistance.

**Main Features**
- Strong Hydrophobic and oleophobic properties
- Strong non-stick and easy clean properties
- Protection of fibers from the infiltration of dirt
- No change on haptic of fiber (No formation of sticky silicon films)
- High transparency and no influence on the appearance of the substrates
- Chemical resistance (Washing and cleaning agent resistance)
- Abrasion and UV resistance
- Easy coat and re-coat (Hardening at room temperature. No additional energy or UV light required)
- Highly durability – up to 3 years in most conditions or 30 washes by standard washing machine.
- Green and Eco

**Coating Method**
- Manual: By wetting textiles (Spraying or dipping)
- Industrial: By standard HVLP systems

**Main Application**
- Car interior all absorbent materials

**Coating Coverage**
- Manual: 30 mL/m² (sqm)

**STEP 1** Clean car interior surface  
**STEP 2** Spray the product evenly on car interior absorbent surface (Let it wet)  
**STEP 3** After 24 hours, the coating completely hardened and can be used and tested
Anti-Fog Spray for Car Interior Glass

Fogging of surfaces is due to temperature and humidity. When sudden changes in temperature occur, small pockets of moisture condense on the surface and cause hazy-white fog that scatter light. The product is designed for smooth and non-absorbent surfaces (glass and PMMA) to prevent that any water on the surface doesn’t bead up and create fog. After coating the product on surface, it can create a transparent nano film to have strong anti-fogging effect.

Main Features
- Strong anti-fogging effect
- High transparency and no influence on the appearance of car glass
- Easy to coat and re-coat (Dry at room temperature)
- Semi-permanent effect – up to 4 weeks in most conditions
- High efficiency with low quantity consumption (Around 7mL/m2)
- Green and Eco

Prerequisite application
No abrasion, no contact with other substances.

Main Application
- Car Interior glass
- Mirrors
- Rearview Mirror
- building windows
- helmet visors

Coating Coverage
Manual: 7 mL/m² (sqm)
Photocatalystic Deodorant and antimicrobial Nano Spray
Long Lifetime Self Clean by sunlight

The product, mainly composed of photocatalystic nano TiO2 particles, and de-ionized water, is designed for car interior long term anti-fouling application. Under sunlight condition, it not only can effectively decompose odor, smoke smell, and VOC (Volatile Organic Compounds) such as Formaldehyde (CH2O), Acetaldehyde (CH3CHO) and other organic gas into non-harmful substances but also inhibit microbes (bacteria, viruses, and fungi) to prevent surface as a medium of transmission of infection. After spray it on the car interior surface, it can create an invisible nano film (thinness around 10 nanometer), which can automatically purify car interior air under sunlight condition.

Main Features
- Anti-bacteria, Anti-viruses, Anti-Fungi
- Decompose odor, smell, and VOC
- Decompose organic stains on the surface
- Prevent surface as a medium of transmission of infection
- Longer term antimicrobial and deodorant effect
- Green and Eco friendly

Coating Method:
Manual: By wetting Surface (Spraying)

Coating Coverage
Manual: 30 mL/m2 (sqm)

Coating Methods
Spray it on the surface of absorbent materials and let it dry.
It can perform photo-catalytic function under sunlight.

Main Application
Spray it on the surface of absorbent materials and let it dry.
It can perform photo-catalytic function under sunlight.