



**DIAMOND
PROTECH⁺**

NANODIAMOND COATING TECHNOLOGY

A close-up, low-angle shot of the front left corner of a dark-colored car. The car's headlight is illuminated, showing a bright, rectangular light signature. The side mirror is visible above the headlight. The car's body panels are highly reflective, showing highlights from the ambient light. The background is a plain, light gray.

DEDICATED TO CARS

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NANODIAMOND COATING TECHNOLOGY

DIAMOND PRO TECH's patented technology has revolutionized the way the world's hardest inorganic polymer (perhydropolysilazane – PHPS) is used. We invented a breakthrough method to merge a matrix of enriched nanodiamonds with inorganic PHPS to create a flexible coating appropriate for cars.

DIAMOND PRO TECH offers breakthrough technology for both consumers and professional automotive detailers:

- **Ease of Use** – our products are easier to use than existing technologies, quickly inspiring confidence during the application process.
- **Efficient Application Process** – faster curing times allow for quicker turnaround time.
- **Heat and UV-resistant**
- **Hydrophobic** – amazing water repellency that lasts
- **True 9H Hardness**– highest abrasion resistance that technology can offer
- **Ecologically Cleaner** – minimal environmental impact
- **Tactile Feel** – Super Smooth! Like no other product on the market today.

COMPOSITE COATING PIONEERS

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DIAMOND PRO TECH's coatings are based on an innovative combination of enriched nanodiamonds and perhydropolysilazane (PHPS).

Diamonds are the hardest natural material on the planet. When reduced down to nano size and enriched, they can be blended with polymers.

DIAMOND PRO TECH has mastered the mixing of enriched nanodiamonds and PHPS to create an evenly distributed, diamond armored, elastic coating with inherent hydrophobic characteristics.

Perhydropolysilazane is the hardest of transparent silicon-based polymers that cure at natural temperatures.

It is heat-resistant, UV-resistant, water-repellent, and provides the highest surface hardness and abrasion resistance that technology can offer. Inorganic versions will not react with organic elements, thereby reducing corrosion.

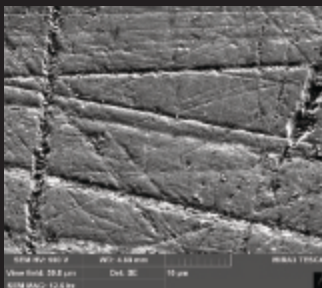
THE SCIENCE OF NANODIAMONDS

DIAMOND ARMOR

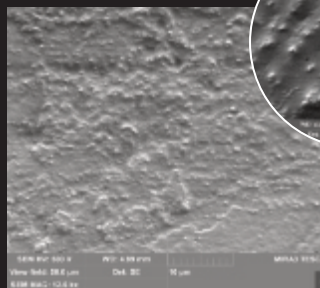
Our enriched nanodiamond coatings fill the micropores of your vehicle's body, creating a smooth, even surface armed with millions of nanodiamond particles locked in a molecular matrix anchored on the car's clearcoat. Whether on a car body or its windows, the dirt and water repellency performance provided by DIAMOND PROTECH coatings will amaze you.

Surface view of car paintwork before and after NGNT® coating

Studies of the samples of the protective coating were carried out using a scanning electron microscope high resolution
Tescan Mira LMU.



VEHICLE PAINT
BEFORE NGNT
COATING



VEHICLE PAINT
AFTER NGNT
COATING

NANODIAMOND
CLUSTERS



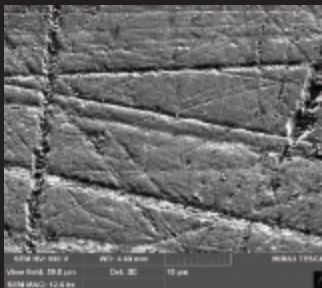
THE SCIENCE OF NANODIAMONDS

DIAMOND ARMOR

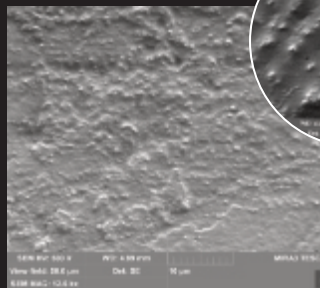
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Surface view of car paintwork before and after NGNT® coating

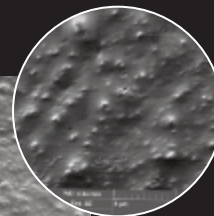
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VEHICLE PAINT
BEFORE NGNT
COATING



VEHICLE PAINT
AFTER NGNT
COATING



NANODIAMOND
CLUSTERS



DIAMOND ARMOR

NGNT® findings have been tested and verified by independent third-party labs, showing that enriched nanodiamond particles take on superhydrophobic characteristics. NGNT® Nanodiamond Composite Coatings are hydrophobic from within providing a longer lasting effect.

The pictures below show the contact angle of a drop of water on enriched nanodiamond particles.

Measurement of the contact angle on enriched nanodiamonds

The hydrophobic properties of nanodiamonds were evaluated using an OCA 20 tensiometer (DataPhysics Instruments GmbH). Nanodiamonds were applied to the paper and liquid (distilled water, $T = 24^{\circ}\text{C}$), $V_{\text{drop}} = 6\ \mu\text{l}$



142°
Contact
Angle

EASE OF APPLICATION FEATURES

CONTROLLED FLASHING

DIAMOND PROTECH Coatings are designed with the professional detailer in mind.

Our products combine ease of application and high performance without compromising either characteristic.

We have engineered our coatings to flash slowly enough to allow a very controlled and stress-free application process.

No need to worry about difficult to remove high spots ever again!

ACCELERATED CURING TIME

Many coatings use solvents which evaporate slowly forcing the coated car to be kept for up to 24 hours in a controlled environment so that the coating polymers can bond to the car body.

DIAMOND PROTECH coatings are engineered to minimize downtime during the application process.

We use the cleanest, fastest-evaporating solvents, allowing the polymers to quickly bond with the car body which almost immediately solidifies into the protective layer.

Cars can be prepped, coated and returned to customers in the same day.



EFFICIENT LAYERING AND THICKNESS

TRUE LAYERING

NGNT coatings are so superior we don't require more than one coating, yet multiple layering provides additional benefits. Some customers may want a deeper finish or even longer performance. For those situations, NGNT offers professional detailers the most efficient layering in the industry.

Many other products have solvent bases which will actually degrade the previous coating on application, rendering only a 1.2 -1.5x finish after two layers are applied

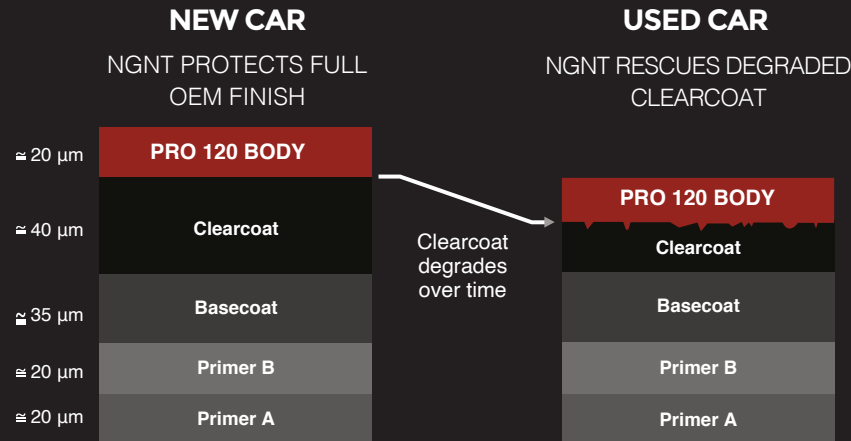
These measurements done under a Tescan® scanning electron microscope shows a sample of a car body with factory paint coated with our Diamond Pro Body 120 package. Measurements were done on coated and uncoated panels to retrieve the coating thickness measurement.



DIAMOND PROTECH® coatings do not degrade their base coatings so that two layers results in a full 2x coating!

ACTUAL THICKNESS

Our coating technology allows for 1:1 build up with each layer added. When using NGNT® Nanodiamond Composite Coatings, you will be adding the strongest protection available on the market today. By applying our PRO 3K ULTIMATE package to a new vehicle you are increasing the quantity and quality of protection provided by the car manufacturer. When applied to a used car, you are restoring the sacrificial layer lost over time and protecting the original paint work.



TREMENDOUS DURABILITY

PROVEN HARDNESS FROM INDEPENDENT LABS

In the coating industry, a product's hardness or ability to resist scratches can be measured by the Pencil Scale. DIAMOND PROTECH® Nanodiamond Technology has been tested and verified by SGS, the world's leading testing and certification company.

SGS Test Results:

DIAMOND PRO TECH's nanodiamond coatings have been certified to achieve a Pencil Scale Hardness of 9H.

Tests:

Pencil Scale Hardness Test – ASTM D3363.

PHPS +
Nanodiamonds
Maximum
Hardness

YEARS OF ULTRA-HARD PROTECTION

NGNT coatings are designed to last for years and years. There are many measures of durability yet one of the most popular tests is the Taber Abrasion Test.

SGS Test Results:

The Taber Abrasion test using NGNT®Composite Coating “increased the abrasion resistance of the original automotive coating by +1017%” which renders as an abrasion resistance similar to glass.

Tests:

Taber Abrasion Test – ASTM D4060

+1017%
Abrasion Resistance
compared to
OEM clearcoat

OXIDATION & CORROSION RESISTANT

Simulation of tough environmental corrosion and mechanical damage tests on Diamond ProTech Coating applied on OEM automobile coatings showed better abrasion, corrosion and better UV protection characteristics than the original automotive coating.

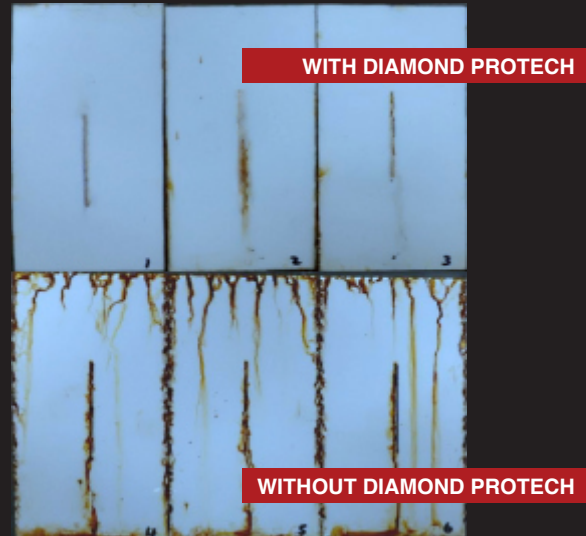
SGS Test Results:

NGNT coatings passed all tests without showing defects, such as delamination, crack, blister, or rust.

Tests:

Neutral Salt Spray – ASTM B117 – 480hrs
Adhesion Grade – ISO240
Corrosion/ Delamination – ISO4628-8

**No Defects under
Harsh Weathering**



CHEMICAL RESISTANCE

Samples of the original car body segment (steel base with original car paint) were provided to SGS laboratories to undergo various comparative testing programs and compared to the same car body segments protected with NGNT®Composite Coating.

SGS Test Results:

NGNT Composite Coating belongs to the category of “High Level of Chemical Resistance” and is resistant to acids and alkali chemical agents with a pH of 1-14.

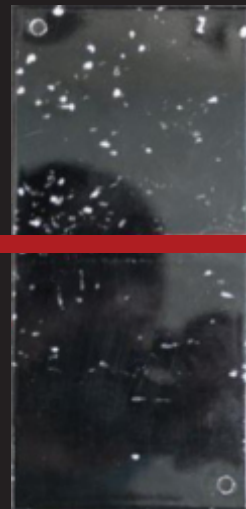
Tests:

Concentrated Acid
and Alkali Resistance
Tests – ISO2812-1(modified).

pH 1-14
Chemical
Resistant

WITHOUT

WITH



FIVE YEAR TESTED

DIAMOND PROTECH CONSUMER PRODUCTS

VEHICLE PROTECTION WITH PROFESSIONAL RESULTS

Our easy to apply coatings allow car enthusiasts to coat their vehicles at home. We have products for first timers, as well as advanced users. Check out our line of coatings and get started immediately!



Diamond Body

Super-Hydrophobic 18 Month Coating

Diamond Body is our breakthrough nanodiamond coating that doesn't require professional training to achieve amazing, hydrophobic results on your vehicle. Prep the car then apply with ease. Diamond Body will yield up to 18 months of hydrophobic protection.

Diamond Body 36

Intense Candy Apple Shine and Slick Feel

Diamond Body 36 offers many characteristics of professional vehicle coatings yet doesn't require professional training. With proper preparation, Diamond Body 36 will yield up to 36 months of hardened, hydrophobic protection while your car exhibits an intense candy apple shine.



Diamond Glass

Lasting Glass Protection

Diamond Glass offers your car windows extreme repellency to water, ice, and dirt. This nanodiamond coating is easy to apply with long-term professional results offering up to 12 months of hydrophobic protection.

Diamond Interior

Plastic/Vinyl/Synthetic Material Protection

Diamond Interior is formulated for interior surfaces such as vinyl, plastic and trim. Diamond Interior will restore and enrich vehicle interior surfaces while providing up to 12 months of UV, water, and stain resistance.



Diamond Leather

Lasting Glass Protection

Diamond Leather is a nanodiamond coating that is specially formulated for leather surfaces. Creating a transparent protective layer, Diamond Leather will repel oil, grease and water for up to 12 months.

Diamond Wheels

Plastic/Vinyl/Synthetic Material Protection

Diamond Wheels nanodiamond coating is resistant to high temperature exposure while providing all the benefits of a paintwork coating. With proper preparation, Diamond Wheels will provide up to 12 months of brake dust and road grime protection and make your wheels always stand out!





Diamond Quick Body

Fast and Effortless Protection

Diamond Quick Body is an effortless, nanodiamond hybrid SiO₂ spray coating which yields 6 months of hydrophobic protection. This spray and wipe formula will maintain and enhance our coating systems - protecting from UV oxidation and hydrophobicity. Immediately results in a slick, caramel gloss appearance on any coated or non-coated vehicle.



Diamond Glass Prep

Prep Solution for Ideal Glass Bonding

Diamond Glass Prep uses nanodiamond cleaning power to remove dirt, streaks and oily residue from glass surfaces. This is a necessary preparation step prior to applying Diamond Glass coating.

Diamond Body Prep

Prep Solution for Ideal Paint Bonding

Diamond Body Prep is our ideal paint surface cleaner that will remove all polish residues, waxes and sealants to prep for optimal bonding of nanodiamond protective coatings.



DIAMOND PROTECH PROFESSIONAL PRODUCTS

PROVEN VEHICLE PROTECTION

Diamond ProTech professional products benefit your business: Quick & Easy Installation + Fast Curing Times = Same Day Client Service



PRO 36

Our 3 Year Coating System

PRO 36 offers superlative results in every coating performance category yet applies quickly and easily. With proper preparation, PRO 36 will yield up to 3 years of hardened, hydrophobic protection while your car exhibits an intense candy apple shine.

PRO 60

Our 5 Year Coating System

PRO 60 is a composite of inorganic polysilazane infused with millions of nanodiamond particles, creating the most extreme scratch resistant coating available on the market. Combined with PRO HYDRO, our long-lasting hydrophobic topcoat, this package creates an intense mirror-like gloss and irresistible slickness.





PRO 120 & PRO 120 SPRAY

Our 10 Year Coating System

PRO 120 is a multi-stage, top-of-the-line nanodiamond coating. Utilizing our most sophisticated, nanodiamond formula, PRO 120 creates immense protection, scratch resistance and rich color depth. Combined with PRO HYDRO, our long-lasting hydrophobic topcoat, this package creates an intense mirror-like gloss and irresistible slickness. With proper preparation, PRO 120 will yield up to 10 years of hardened, hydrophobic protection.





PRO WHEELS SPRAY

Beautify and Protect Your Wheels

PRO WHEELS SPRAY is a protective composite that can withstand temperatures of over 1000°C/1832°F. Use it to coat wheel rims, brake calipers and even exhaust systems. It will prevent brake dust corrosion and keep rims glossy and beautiful for 1 year.

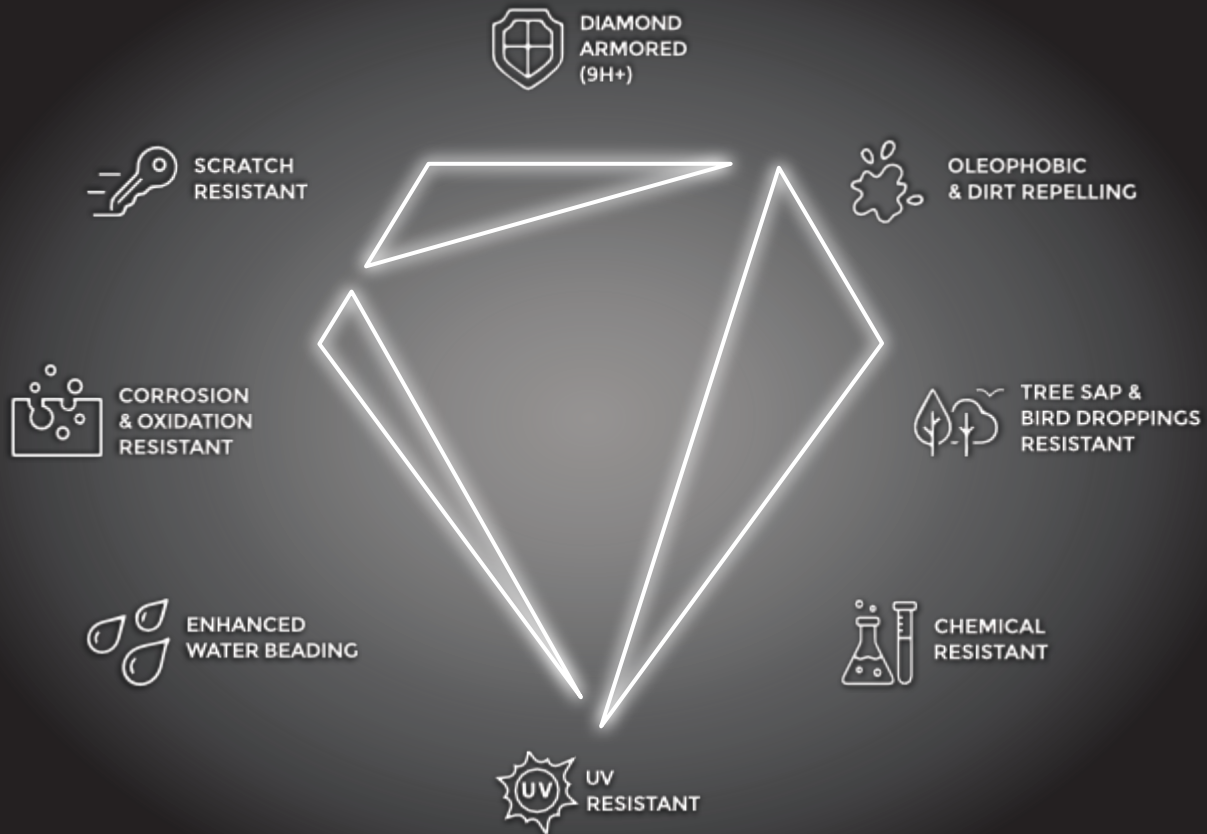
MAINTENANCE KIT

The Ideal Maintenance Combo

Diamond Body Prep is an ideal paint surface cleaner that will remove all polish residues, waxes and sealants to allow an optimal bonding for nanodiamond protective coatings.

Diamond Quick Body is an effortless, nanodiamond hybrid SiO₂ spray coating which yields 6 months of hydrophobic protection. This spray and wipe formula will maintain and enhance our coating systems - protecting from UV oxidation and hydrophobicity. Immediately results in a slick, caramel gloss appearance on any coated or non-coated vehicle.





DIAMOND PROTECH

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DIAMOND PROTECH IS A BRAND BELONGING TO NGNT
S.A. SWITZERLAND

NGNT researches and develops nanotechnology composites, and we are based in the Swiss Alps at Y-Parc – Swiss Technopole, a flourishing technological ecosystem dedicated to the latest technological innovations.

NGNT operates from a dedicated laboratory where R&D and production are executed. Similarly, we partners with the Engineering University of Yverdon Les Bains to enlarge the scope of our inventions and develop additional innovative products.

NGNT is the first materials science company to successfully use enriched nanodiamonds in protective coatings. This breakthrough allows coating formulations to achieve significantly greater hardness and durability whilst still being easily applied by both consumers and professionals.



DIAMOND PROTECH

DIAMOND
PROTECH 

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