2026 CNS TECH INC PAINT PROTECTION FILM BROCHURE

CNS TECH INC

R&D BASED CERAMIC COATING MANUFACTURER

At the heart of CNS TECH is the desire to think differently and challenge convention. This has led us to research/develop/manufacture ceramic coatings in over 4 different continents across the world.

MARKET GROWTH RATE

PAINT PROTECTION FILM

The global paint protection film (PPF) market has shown steady growth since 2020, expanding from ~US$335M (2020) to well over US$500M by 2024 as PPF adoption becomes more mainstream for preserving vehicle appearance and resale value. Looking ahead, forecasts continue to trend upward, Fortune Business Insights projects the market to reach ~US$962.6M by 2032, meaning the category is expected to approach the ~US$1B level in the early 2030s.

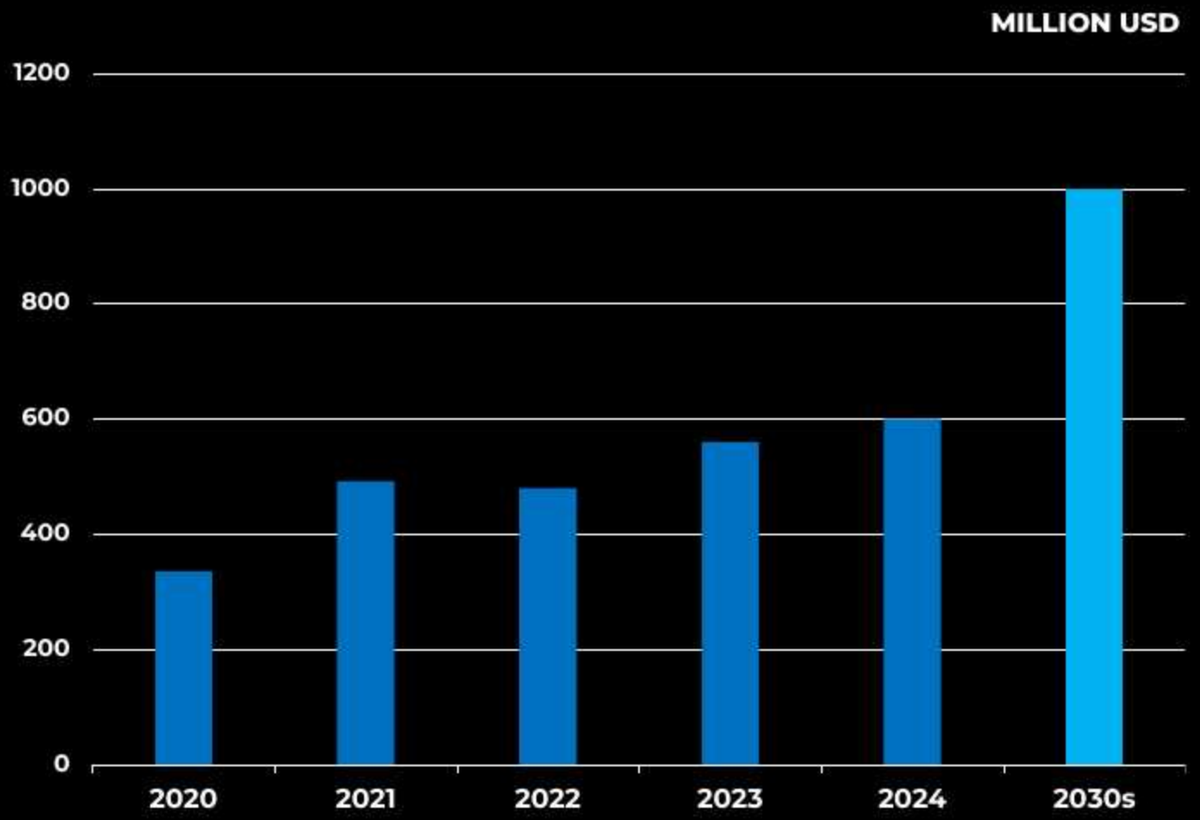
WHAT DOES THIS MEAN?

Demand is rising: More owners are choosing PPF to protect appearance and preserve resale value as awareness increases and installation becomes more accessible.

Competition is intensifying: Growth invites more brands and suppliers to enter the space, increasing price pressure across the channel.

Quality polarization: Alongside premium films, the market opens the door to low-cost, low-quality films competing mainly on price, often leading to higher risk of defects, complaints, and warranty disputes.

Opportunity for differentiation: As customers become more educated and picky, brands that can prove consistent performance (especially after installation and in the first 60–90 days) gain an advantage.



GROWTH BRINGS OPPORTUNITY AND RISK

As PPF becomes mainstream and adoption continues to accelerate, more brands and suppliers enter the market, raising competition and price pressure. In this environment, quality control and proven, long-term performance are no longer optional, and the brands and installers who differentiate with reliable results, clear processes, and value-added services gain the new competitive advantage.

MANUFACTURER / BRAND

As competition increases, brands must prioritize quality risk management because low-grade films often fail later (haze, staining, adhesive issues), creating warranty costs and reputation damage. Winning brands differentiate beyond price by proving real-world performance, ensuring stable supply, and backing it with clear warranty terms. The strongest positioning comes from offering a complete "system" (film + install standards + training + aftercare/maintenance program) that reduces complaints and protects the brand long-term.

INSTALLER

For installers, market growth means more options and more risk. The key is to consistently choose and handle films that deliver predictable results, because the real cost is not installation time but comebacks and rework (edge lift, haze, staining complaints). Shops that stand out will compete on expertise: guiding customers on film selection, maintaining disciplined installation processes, and offering aftercare and maintenance programs that protect clarity and gloss over time.

CUSTOMER

For customers, a crowded market means quality varies widely, and low-cost films can lead to defects like yellowing, haze, staining, edge lift, adhesive marks, or gloss drop, often months after installation. Choosing based on outcomes (warranty terms, proven results, and installer process) is safer than relying on marketing claims. Customers should also understand that PPF isn't zero-maintenance; proper washing and periodic maintenance help keep the film clear, glossy, and performing as intended.

POST-INSTALL DEFECT TIMELINE

Common issues follow a predictable timeline from early edge lift and installation-related defects in the first 90 days, to top-coat wear and loss of surface protection within 3–6 months, visible aging such as haze or yellowing around 12 months, and long-term adhesive problems that can appear after 2–3 years.

0–90 DAYS (EARLY-STAGE / INSTALLATION-RELATED DEFECTS)

- Edge lift / Corner peel
- Bubbles / Water pockets
- Silvering / Glue lines
- Contamination under film

3–6 MONTHS (SURFACE & TOP-COAT PERFORMANCE STARTS TO DROP)

- Decrease in water repellency
- Fine scratches (swirl, towel marks)
- Water spots
- Pollutants staining

6–12 MONTHS (MATERIAL AGING BECOMES VISIBLE)

- Film yellowing
- Loss of clarity & haze
- UV-related surface oxidation
- Increased staining / Pin holes

2–5 YEARS (ADHESIVE & LONG-TERM STRUCTURAL ISSUES)

- Adhesive failure / delamination
- Adhesive residue after removal
- Tunneling / Creeping lift
- Hard removal / Paint ripping

REDUCING DEFECTS WITH THE RIGHT CHEMISTRY

Film quality matters, but it's only part of the outcome. With the right chemical system, proper surface preparation, PPF-safe installation chemistry, and a consistent maintenance routine, many of the most common issues (edge lift, staining, haze, water-spotting, and early top-coat breakdown) can be significantly reduced or prevented before they turn into customer complaints, comebacks, or warranty claims.

0–90 DAYS

INSTALL STAGE FAILURE

Using the wrong compound, install solution, or degreaser can cause early defects like edge lift, bubbles, haze, and staining.

3–6 MONTHS

TOP-COATING FAILURE

Most 3–6 month defects happen when the factory top-coat loses its protective function. A PPF specific ceramic coating can reinforce that surface layer, helping it last longer and maintain protection.

6–12 MONTHS

MATERIAL FAILURE

Most 6–12 month issues happen after the top-coat wears down and the film is directly exposed to UV. Using a PPF-specific ceramic coating and the right maintenance chemicals can significantly reduce this.

2–5 YEARS

LONG TERM FAILURE

Long-term failures come from abrasion, harsh chemicals, pollutants, and UV damage that degrade the film, causing gloss loss and sometimes adhesive residue. PPF-specific chemicals and routine maintenance can reduce this significantly.

WHAT CAN WRONG COMPOUNDS LEAD TO?

Automotive compounds aren't designed for PPF to be installed immediately. They often contain surfactants and silicone oils that temporarily mask swirls, stains, and haze making the surface look "ready." But after installation, the film's adhesive can react with or pull out these residues, causing defects to appear later.

WATCH OUT FOR

SURFACTANTS

SILICONE OIL

STAIN REAPPEARANCE

Silicone oils can temporarily cover swirls, light scratches, haze, and stains. But after installation, the film's adhesive can pull out and dry those oils, so the defects often reappear.

DUST ATTRACTION

Surfactants and silicone oils can trap dust and hide it. If not fully removed, the adhesive can react with the residue and the dust stains may show up later.

ADHESIVE INTERFERENCE

Surfactants and silicone oils can interfere with adhesive bonding, preventing proper adhesion. This can lead to edge lift, corner peel, delamination, silvering, tunneling, and creeping lift.

WHAT CAN WRONG DEGREASERS LEAD TO?

Many degreasers currently on the market are not automotive-specific. They are often repurposed industrial formulations that include surfactants designed to boost wetting and cleaning in general-use environments. On automotive paint, especially before PPF installation, these surfactants can remain on the surface, interfere with adhesive bonding, and contribute to post-installation defects

WATCH OUT FOR SURFACTANTS

LEFTOVER RESIDUES

Surfactants can reduce effective cleaning and often fail to fully remove wax and compound residues. Instead, they may mask these residues, leading to haze marks and stains that reappear after film installation

DUST ATTRACTION

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ADHESIVE INTERFERENCE

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WHAT CAN WRONG INSTALL SOLUTION LEAD TO?

Dish soap, baby oil, and carbomer powders aren't ideal PPF install solutions because they weren't designed for PPF sensitive adhesives. Dish soap can leave surfactant/additive residue that attracts dust and blocks uniform adhesive wet-out, leading to glue lines, silvering, tunneling, and edge lift. Baby oil leaves an oily film that contaminates the bond line and weakens adhesion, while carbomer-only mixes simply thicken water without proper wetting or controlled slip, often causing uneven squeegeeing, residue, and inconsistent bonding.

WATCH OUT FOR

ANIONIC SURFACTANTS

GLUE LINE

Wrong install solution can leave surfactant/ oil residue that prevents uniform adhesive bonding, causing visible glue lines. If it's too slippery or dries unevenly, the film shifts during squeegeeing and the adhesive channels into streaks.

ATTRACT AND TRAP DUST

Wrong install solution can leave sticky surfactant /oil residue that attracts dust and makes particles cling to the surface. That residue can also trap dust under the film, where it later shows up as visible specks or stains.

ADHESIVE INTERFERENCE

Wrong install solution can interfere with adhesive bonding, preventing proper adhesion. This can lead to edge lift, corner peel, delamination, silvering, tunneling, and creeping lift.

WHAT CAN WRONG CERAMIC COATINGS LEAD TO?

Using the wrong ceramic coating on PPF can create haze or staining during application and curing, especially when harsh solvents are involved. Even if no damage is visible at first, those solvents can weaken the film's top coat at a molecular level, causing rapid loss of hydrophobicity, chemical/UV resistance, self-healing, and anti-pollution performance. Many "PPF coatings" are also simply weak formulas focused only stain-free application, resulting in short durability and a very poor quality.

WATCH OUT FOR

OUTDATED NONSPECIFIC FORMULAS

COATING HAZE & STAINS

Most ceramic coatings on the market are not designed specifically for PPF. Some contain harsh solvents that are not compatible with PPF, which can cause haze or staining during application and curing.

FILM TOP-COAT DAMAGE

If the wrong ceramic coating is used, it may look fine at first, but the solvents can weaken the film's top coat, reducing overall durability and quickly degrading hydrophobicity, chemical and stain resistance, UV resistance, and self-healing.

POOR QUALITY & DURABILITY

Many so-called "PPF coatings" are simply weak, low-quality formulas made safe from staining. The result is poor performance and short durability.

WHAT CAN WRONG CLEANING CHEMICALS LEAD TO?

Using the wrong cleaning chemicals on PPF can gradually strip or damage the top coat, causing the film to lose its protective properties much faster. Because PPF can allow pollutants to penetrate deeper than automotive clear coat, standard cleaners may not remove embedded contamination effectively, leading users to overuse stronger products. Over time, harsh chemistry can damage not only the top coat but also the TPU itself, drying the film out and accelerating yellowing, gloss loss, and even cracking.

WATCH OUT FOR

HARSH CHEMICAL INGREDIENTS

FILM TOP-COAT DAMAGE

Harsh chemicals are often used to maximize cleaning power, but PPF top coats are less tolerant of aggressive cleaners, and repeated use can damage the top-coat layer causing the film to quickly lose its protective properties.

POOR QUALITY

PPF typically has higher free volume than automotive clear coat, which can allow pollutants to penetrate deeper and strongly within the film. Standard automotive cleaners may not be effective at removing these deeply embedded contaminants from PPF.

TPU DRY-OUT / DAMAGE

Harsh chemicals in cleaners can eventually damage not only the top coat, but the TPU itself. This can dry out the film and accelerate yellowing, reduce gloss, and even lead to cracking over time.

WHAT CAN WRONG MAINTENANCE COATINGS LEAD TO?

Using the wrong maintenance coating on PPF can cause haze or staining during application and curing, especially when harsh, incompatible solvents are present. Even if it looks fine at first, those solvents can weaken the film's top coat, reducing durability and quickly degrading hydrophobicity, chemical/stain resistance, UV resistance, and self-healing performance. And because PPF typically has higher free volume, coatings need a denser, more robust chemistry, however, many generic maintenance coatings are too light, resulting in low performance and short durability.

WATCH OUT FOR

OUTDATED NONSPECIFIC FORMULAS

COATING HAZE & STAINS

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FILM TOP-COAT DAMAGE

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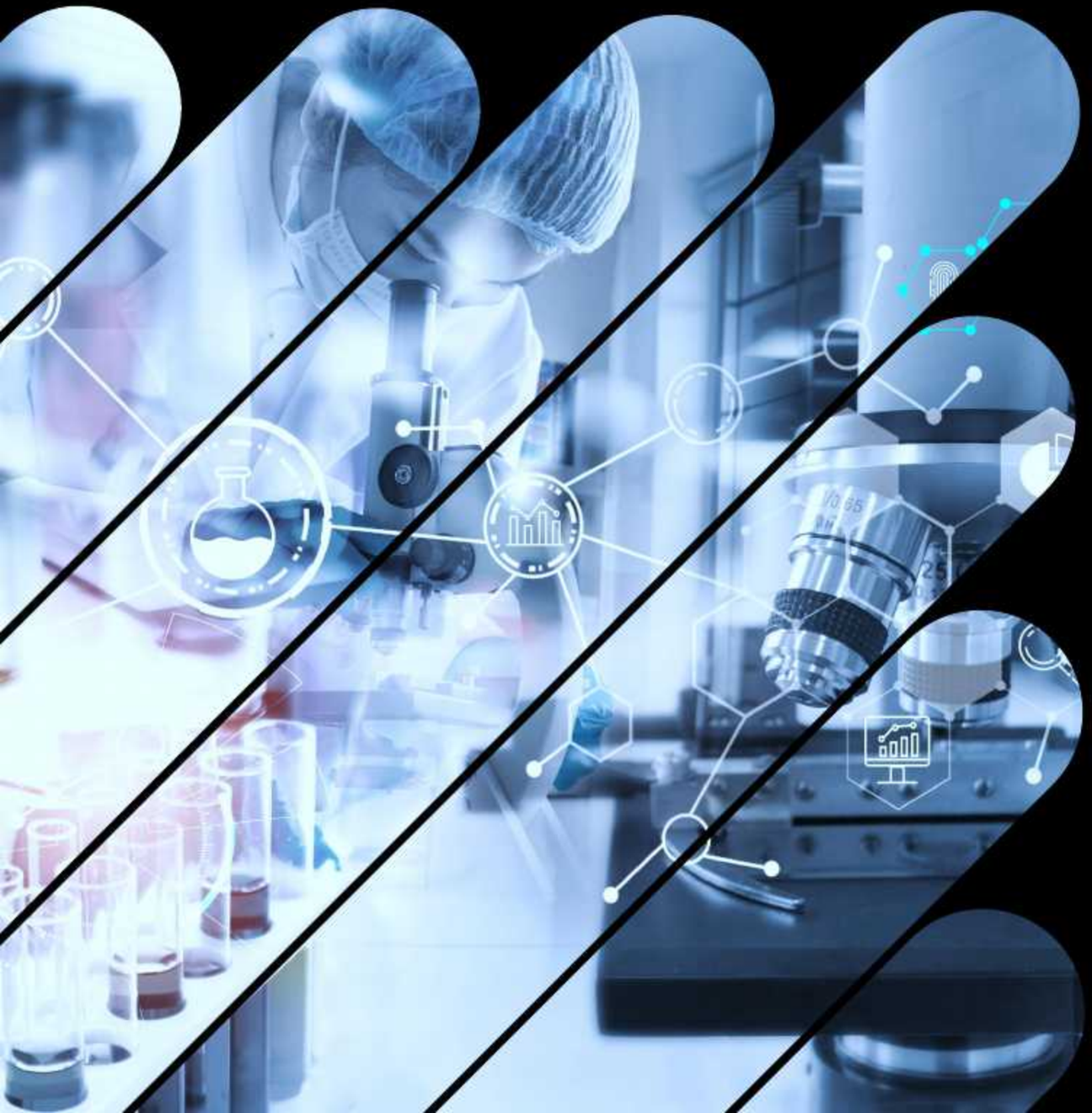
POOR QUALITY & DURABILITY

Because PPF typically has higher free volume, maintenance coatings need to use a dense ingredient to perform reliably. Many maintenance coatings don't use dense ingredients, which can result in lower performance and short durability.



WHY LEADING BRANDS CHOOSE CNS TECH INC

CNS TECH INC is one of the very few true ceramic coating manufacturers in the automotive industry, backed by 27+ years of R&D, multiple patents, and decades of formulation experience.
We help brands worldwide create high-performance, industry-specific ceramic coatings that stand above the competition.

UNDERSTANDING CERAMIC COATING TECHNOLOGY

Ceramic coatings have evolved dramatically over the last several decades. However, the majority of products in today's market still rely on outdated formulations. Understanding where ceramic coatings came from, and why many brands struggle with performance, explains the need for modern, industry-specific solutions.

HISTORY OF CERAMIC COATINGS

1960S

GENERATION – 1 COATINGS
AEROSPACE / INDUSTRIAL ERA

- Developed for military, aerospace, and heavy industrial surfaces
- Very durable but thick, cloudy, and unsuitable for automotive finishes

2000

GENERATION – 2 COATINGS
EARLY AUTOMOTIVE ADAPTATION

- Gen 1 chemicals simply diluted for easier application
- Offered better usability but at the cost of durability and purity.
- Many “manufacturers” still sell these diluted formulas today under automotive branding.

2015

GENERATION – 3 COATINGS
AUTOMOTIVE SPECIFIC COATINGS

- Engineered for automotive surfaces
- Improved quality, better usability

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WHY GEN-1 & GEN-2 COATINGS FAILED IN AUTOMOTIVE USE

Most ceramic coating brands in the market today are not true manufacturers. Instead, they rely on premade base formulas, similar to restaurants using store-bought sauce instead of cooking from scratch. Because these rebranded or lightly modified Gen 1/Gen 2 formulas dominate the industry, the market is filled with inconsistent performance, misleading claims, and products that lack real testing or technical foundation. This is why it's increasingly rare to find coatings that are genuinely engineered for automotive use.

DURABILITY VS USABILITY TRADE-OFF

High-durability ceramic formulas traditionally contain higher solid content, which makes them harder to level, more prone to high spots, and sensitive to timing during application. On the other hand, coatings that are made "easy to use" are often heavily diluted, resulting in weak crosslinking, rapid hydrophobic decline, and protection that fades within weeks or months. This fundamental imbalance leads to unpredictable performance in real-world conditions.

POOR CLARITY & STAINING

Older-generation coatings were never engineered for optically clear automotive paintwork. As they cure, their dense molecular structure can cloud the surface, creating haze, streaks, or stains, even after proper application. These imperfections often reappear hours later due to uneven curing or moisture interaction, leaving detailers frustrated and vehicle owners dissatisfied with the final finish.

INADEQUATE CHEMICAL RESISTANCE

Gen 1 and Gen 2 coatings lack the chemical robustness required for modern automotive environments. Frequent washing, alkaline shampoos, acidic cleaners, road salt, UV exposure, and environmental contaminants quickly break down the protective layer. As a result, water-beading collapses, gloss diminishes, and the coating loses its integrity far earlier than advertised.

CURRENT MARKET SITUATION

Most "MANUFACTURERS":

- Buy premade base formulas
- Slightly tweak or dilute them
- Rebrand them as new coatings
- Lack in-house testing ability
- Cannot troubleshoot formulation issues

Most Brands Are Not True Manufacturers

The majority of ceramic coating brands today repackage premade formulas. This is similar to restaurants using store-bought spaghetti sauce instead of cooking from scratch.
Only a small number of companies produce coatings from raw ingredients.

Why Low-Quality Products Still Sell

- Marketing hype overshadows real performance.
- Coating failure happens gradually, making it hard for customers to detect early.
- When issues appear, blame is easily shifted between customer & detailer.

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WHY TRUE PPF SPECIFIC FORMULATION IS DIFFICULT

1. Time-Consuming

- Requires deep understanding of silane & polysilazane chemistry.
- Proper testing can take months per formula if done incorrectly.

2. Tough Quality Control

- Scaling from 100 ml to 100 liters changes quality dramatically.
- Raw materials degrade quickly if not stored correctly.
- Minor mistakes cause large variations in clarity, hardness, and durability.

3. High R&D Cost

- Raw chemicals are extremely expensive at small test quantities.
- Continuous testing, sampling, and stability checks require heavy investment.

WHY CHOOSE CNS TECH INC

CNS TECH INC. overcomes industry limitations through deep expertise, resources, and decades of chemical engineering experience and became one of the few true manufacturers capable of engineering coatings for specific industries.

27+ YEARS OF R&D

- Developing ceramic coatings since 1997.
- Hold **4 technology-based patents** on chemical formation.

AGGRESSIVE INVESTMENT

Over **20% of annual revenue** reinvested into research and development.

INDUSTRY-SPECIFIC FORMULAS

- Tailor formulations for automotive, marine, aviation, and specialty surfaces.
- Provide rapid, objective performance comparisons for partners.

MODERN HISTORY OF CERAMIC COATINGS

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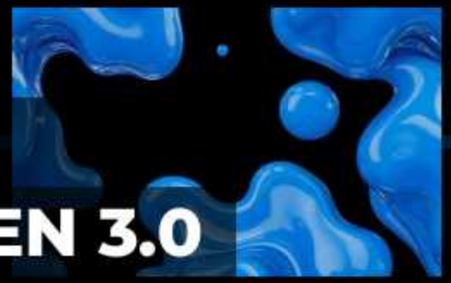


GEN 3.0

GENERATION – 3 COATINGS
AUTOMOTIVE SPECIFIC COATINGS

- Engineered for automotive surfaces
- Improved quality, better usability

GEN 3.5

GENERATION – 3.5 COATINGS
GRAPHENE CERAMIC COATINGS

- Graphene can improve performance by 5~10%
- However, most brands do not know how to use graphene properly

GEN 4.0

GENERATION – 4 COATINGS
CARBON NANOTUBE CERAMIC COATINGS

- Boost performance by 200~500%
- Very stable, and easy to use
- Works extremely well on PPF

REALITY OF GRAPHENE COATINGS

High-quality graphene is extremely expensive and requires complex multi-stage processing, such as functionalization, high-shear dispersion, and chemical grafting, to blend correctly into ceramic coating formulas. Most coating brands lack the manufacturing capability, equipment, and R&D expertise to perform these steps. As a result, many companies compensate by lowering the ceramic base quality or simply stirring graphene powder into coatings, which provides no real performance improvement. This leads to a market flooded with “graphene coatings” that are largely marketing-driven and deliver little to no genuine benefit.

CHALLENGES WITH GRAPHENE COATINGS:

COST ISSUE

High-quality graphene costs around **$10,000/kg**.

PROCESSING ISSUE

Requires multi-stage processing and functionalization to disperse properly.

CURRENT STATUS

Many brands compensate cost by lowering ceramic quality or simply stirring graphene powder, resulting in zero improvement.

OUTCOME

Most “graphene coatings” on the market fail to deliver meaningful benefits.

GEN 4 CARBON NANOTUBE CERAMICS

CNS goes beyond graphene by developing **Gen 4 Carbon Nanotube Ceramic Coatings**.

1

SUPERIOR STRUCTURAL REINFORCEMENT

Carbon nanotubes integrate seamlessly into the ceramic matrix, strengthening the coating at a molecular level. Their tubular structure provides far greater reinforcement than flat graphene sheets, resulting in improved hardness, abrasion resistance, and long-term durability.

2

SMALLER & DENSER MOLECULAR STRUCTURE

The smaller, denser molecular structure of carbon nanotube ceramic coatings allows them to penetrate deeper and pack more tightly into the surface. This improves bonding and forms a more durable protective layer, ideal for paint protection film surfaces with finer pores.

3

HIGHER PERFORMANCE-TO-COST RATIO

CNTs offer dramatic performance improvements (200–500%) while being significantly more affordable than high-quality graphene. This allows us to enhance hydrophobicity, gloss retention, and chemical resistance without sacrificing ceramic quality or increasing the final product cost excessively.

BENEFITS OF CNS GEN 4 COATINGS

Gen 4 ceramic coatings, reinforced with carbon nanotube technology, deliver a major leap in performance compared to previous generations. CNTs strengthen the coating's molecular structure, dramatically improving durability, abrasion resistance, and chemical stability. They disperse more evenly and reliably in liquid formulas, ensuring consistent quality and reducing issues like staining or uneven curing. Most importantly, Gen 4 coatings offer a significantly higher performance-to-cost ratio, providing easier application, longer-lasting protection, deeper gloss, and far fewer customer complaints. For brands and detailers seeking reliable, next-generation results, Gen 4 coatings represent the most advanced and practical solution available today.

STRONGER MOLECULAR STRUCTURE

Carbon nanotubes reinforce the coating from within, greatly improving durability and scratch resistance.

SUPERIOR CHEMICAL STABILITY

CNT-infused coatings resist acids, alkalis, and frequent washing far better than previous generations.

CLEARER, CLEANER FINISH

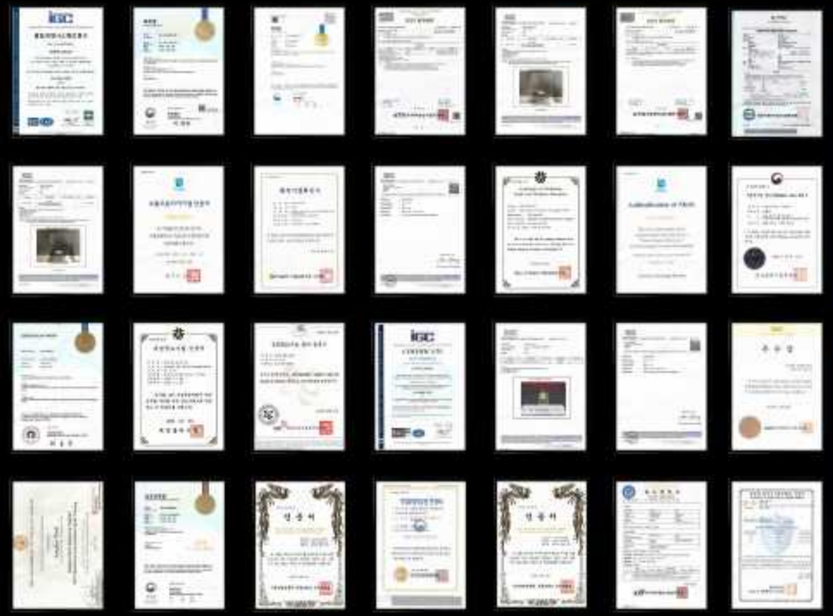
Improved dispersion prevents haze and staining, delivering a sharper, high-gloss surface.

STRONGER CUSTOMER SATISFACTION & LOYALTY

Reliable long-term performance reduces complaints and after-service issues, helping detailers build trust, repeat business, and lasting customer loyalty.

RESEARCH & DEVELOPMENT BASED

BACKED BY OVER
40 DIFFERENT PATENTS &
CERTIFICATES



TECHNOLOGY PATENTS

< 1 - Coating composition for automobile surface >

< 2 - Formation of super water-repellent coating using inorganic oxide particles >

< 3 - Formation of high-hardness water & oil-repellent coating >

< 4 - Formation of eco-friendly detergents >

CERTIFICATES

< SGS 9H PENCIL HARDNESS CERTIFICATE >

< SGS 10H PENCIL HARDNESS CERTIFICATE >

< TECH VENTURE COMPANY / MAIN BIZ / EXPORT FRONTIER >

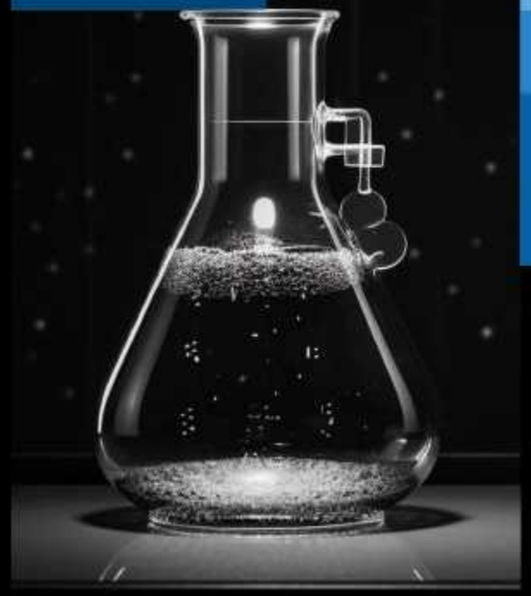
< T5 TECH LEVEL / ISO9001 >

WE GUARANTEE

At CNS TECH INC, we guarantee that whatever formula you have, we can provide you with a stronger and more durable formula. Through years of experience of producing tailor-made coatings and running endless comparison tests we can provide you with comparison results and guide you through on-field testing as well.

QUALITY DRIVEN

Our constant effort and time put into R&D enables us to create world's strongest ceramic coatings. All our quality related data are backed up by certifications & test results.



EXPERIENCE

Through years of providing private labels to different partners we have the capacity of formulating specific formulas and delivering the same quality on time.

WIDE RANGE OF PRODUCTS & FULL TURNKEY PRODUCTION

Whether looking for an entry-level ceramic coating or a premium-grade ceramic coat, or even cleaning chemicals,
we have it all. We can also provide a full turnkey service and deliver finalized products to your door.

CNS TECH INC

INDUSTRY SPECIFIC CERAMIC COATINGS

CNS has been developing over 300 different coating products because we know that a whole different coating may be needed according to the type of surface/ purpose/ environment/ use/ etc. Through continuous R&D CNS holds a wide range of ceramic coatings used for House & Buildings / Industrial Uses / Floors / Automobile & Transportation / Aircrafts / Marine / Raw Materials and a lot more.

AUTOMOBILE CERAMIC COATINGS

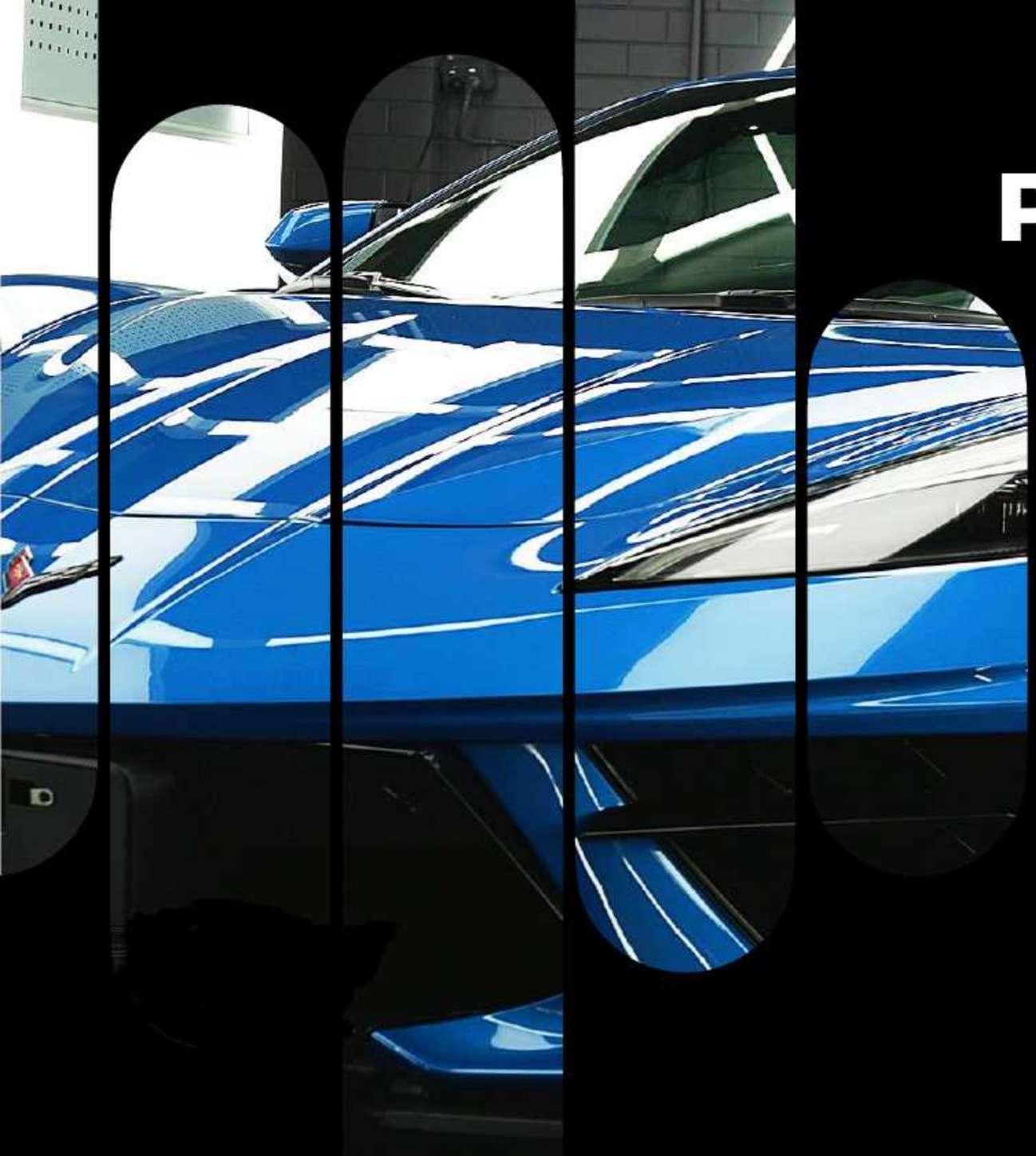
10H Carbon Nanotube Ceramic Coatings engineered for exceptional performance with durability of up to 12 years.

PAINT PROTECTION FILM CERAMIC COATINGS

10H Carbon Nanotube Ceramic Coatings engineered for exceptional performance, specifically for PPF

HOME / BUILDING / INDUSTRIAL CERAMIC COATINGS

High-performance ceramic coatings for raw materials, semiconductor equipment, residential, commercial interior exterior properties and a wide range of specialized industries.



PPF SPECIFIC CERAMIC COATINGS

CNS TECH INC.'s products stand out for their exceptional quality, developed using the latest advancements in nano-ceramic technology. Unlike many products on the market, our solutions combine superior performance with effortless, user-friendly application.

With a diverse portfolio of **PPF specialized products**, you can easily select the coating that best matches your needs and service style. This versatility allows you to deliver outstanding results efficiently, providing your customers with the highest level of satisfaction.

EC-PF1

EC-PF1 is a single-layer 10H ceramic coating from CNS TECH INC., specifically engineered for use on Paint Protection Films (PPF). Designed through extensive research and refinement, this coating enhances PPF surfaces in multiple ways, delivering excellent water repellency, high gloss, enhanced sleekness, strong chemical resistance, scratch resistance, anti-yellowing performance, and protection against pollutants.
In addition to elevating appearance, EC-PF1 strengthens the overall quality and extends the lifespan of the film, helping maintain a clean, durable, and premium finish over time.

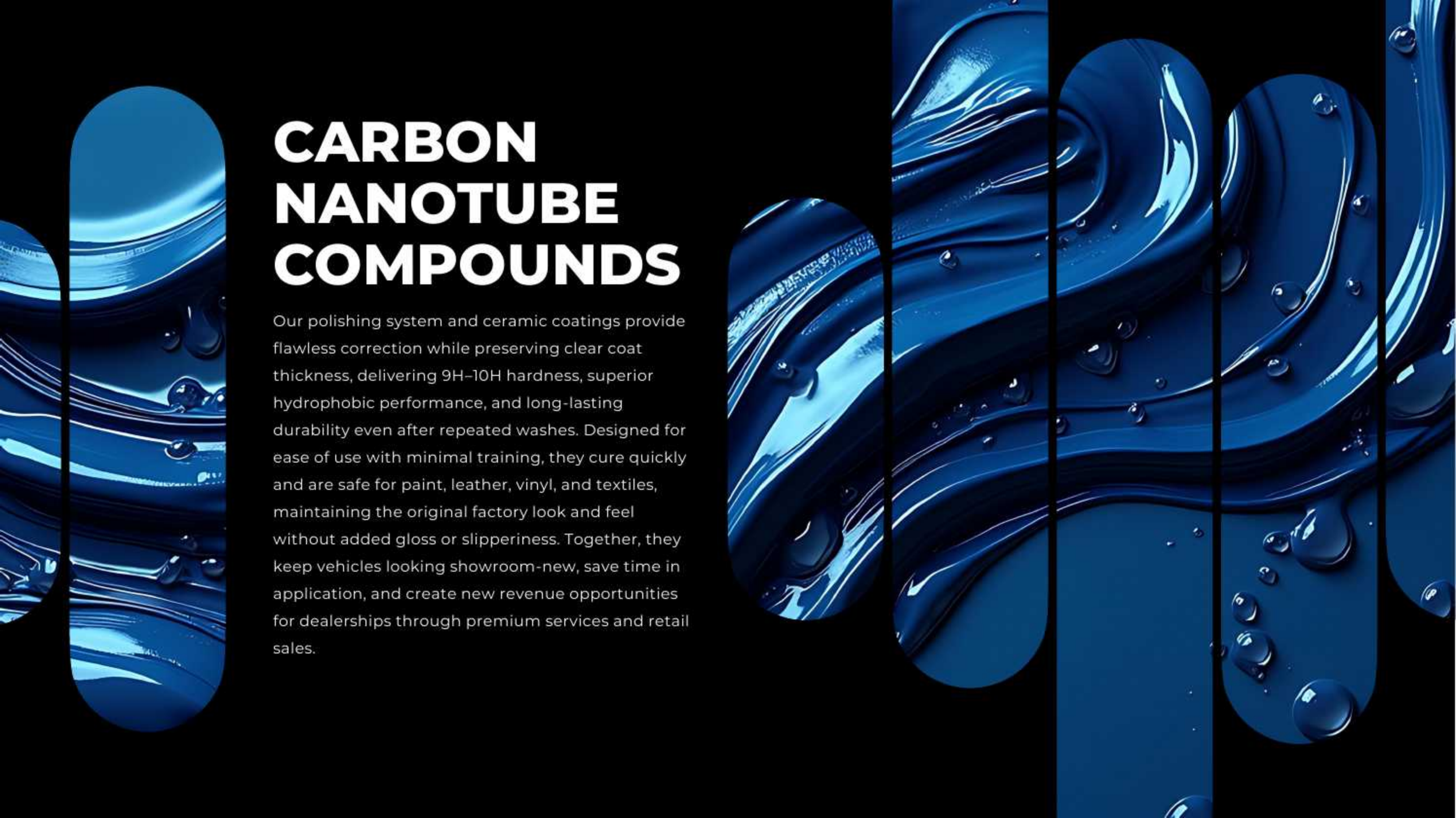
- **Durability: Up to 60 months**
- **Hardness: 10H**
- **Roll-off Angle: 4~8 °**
- **Water Repellency: 115°**
- **Thickness: 300~500nm**
- **Final Cure: 10 days**
- **Initial Cure: Heat Treated – 1 hour / Room Temp – 3~5 hours**
- **Applicable Materials: Exterior Parts**

PPF SPECIFIC CERAMIC COAT

EC-PF1

CARBON NANOTUBE COMPOUNDS

Our polishing system and ceramic coatings provide flawless correction while preserving clear coat thickness, delivering 9H–10H hardness, superior hydrophobic performance, and long-lasting durability even after repeated washes. Designed for ease of use with minimal training, they cure quickly and are safe for paint, leather, vinyl, and textiles, maintaining the original factory look and feel without added gloss or slipperiness. Together, they keep vehicles looking showroom-new, save time in application, and create new revenue opportunities for dealerships through premium services and retail sales.



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MP-AIO

CARBON NANOTUBE POLISHING COMPOUNDS

MP-AIO is a high-performance all-in-one polish that combines cleaning, scratch correction, and gloss enhancement in a single step. It removes scratches, swirl marks, and surface contamination while refining the finish to a bright, uniform gloss. Built with advanced dust-control technology, MP-AIO works cleanly with minimal dusting and low residue that does not stick to the surface—making it ideal for PPF shops, and service centers where speed and cleanliness matter. MP-AIO is surfactant-free and silicone-oil-free, making it an ideal compound before PPF installation because it won't leave residues that can interfere with adhesive bonding. It is also safe to use on top of PPF and vinyl (with the appropriate pad) to remove light scratches and swirls, restore clarity, and revive faded gloss without distortion or damage. MP-AIO is PPF-safe and suitable for modern paint, PPF, and vinyl surfaces.

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MP-MR

CARBON NANOTUBE POLISHING COMPOUNDS

MP-MR is a powerful yet gentle multi-remover engineered to dissolve tough oil films, built-up residues, and stubborn contaminants across multiple surfaces. On glass, it rapidly breaks down and removes coating layer and organic buildup; on clear coats, it eliminates ceramic-coating stains, water spots, and light pollutants; and on chrome, it lifts white rust to restore a clean, reflective shine. Designed for maximum versatility, MP-MR does not stick to rubber or plastic surfaces and will not damage surrounding materials. Instead, it rinses away cleanly with water, leaving no residue behind. Its fast-acting formula requires no machine polishing, simply apply a small amount to a microfiber towel and rub by hand to achieve professional-quality results with minimal effort. MP-MR delivers efficient, surface-safe cleaning and restoration, making it an essential tool for maintaining clarity, cleanliness, and finish quality across a wide range of materials.

CLEAN&SHINE PPF SERIES

The Clean & Shine line-up is thoughtfully developed to deliver exceptional cleaning performance while addressing the latest market trends and the real-world frustrations users often experience with conventional products. Each product in this series is engineered to offer powerful, efficient cleaning without compromising surface safety. With formulas that leave zero damage and no residue behind, Clean & Shine products are gentle enough for all surfaces yet effective enough to tackle tough contaminants. In addition, every formula is designed with user safety in mind, ensuring a comfortable and worry-free cleaning experience. With the Clean & Shine line-up, you can achieve superior cleanliness, enhanced surface appearance, and complete confidence in every application.

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CS-IG1

ADVANCED PPF INSTALLATION GEL: SURFACTANT-FREE SLIP AGENT FOR SEAMLESS ADHESIVE BONDING

CS-IG1 is a high-performance installation gel engineered specifically for Paint Protection Film (PPF) applications where bond integrity is paramount. Unlike traditional slip solutions, CS-IG1 is formulated without anionic surfactants, ensuring that the chemical composition never interferes with the film's adhesive layer or long-term bonding performance. The specialized viscosity of CS-IG1 significantly reduces glue lines and silvering, providing a lubricated "float" that allows for precise repositioning. Its unique colloidal properties are designed to encapsulate and pull out dust particles during the squeegee process rather than trapping them beneath the film. Designed for clean execution, the gel washes away effortlessly with water, leaving behind zero residue, hazing, or milky streaks. CS-IG1 offers exceptional economy and versatility; it can be diluted up to 1:5 with deionized water, allowing installers to fine-tune the slip-to-tack ratio based on specific film adhesive strengths and environmental conditions.

CNS TECH INC

CS-P1

HIGH-QUALITY SURFACE PRE-TREATMENT ANTI-STATIC DEGREASER

CS-P1 is a high-performance PPF-specific degreaser engineered to remove oils, residues, and contaminants that can interfere with film adhesion and coating performance on PPF. Its PPF-safe solvent system rapidly breaks down polishing oils, surfactant residues, and embedded pollutants without stressing the film's top coat, leaving the surface truly clean and installation-ready. The formula also provides an anti-static effect to reduce dust attraction during prep, helping minimize trapped particles and rework. By creating a purified, stable surface, CS-P1 supports stronger adhesive bonding, cleaner installations, and improved long-term durability of the film and any applied PPF coatings.

CNS TECH INC

CS-F1

ULTRA-CONCENTRATED, HIGHLY ADHESIVE COLLOIDAL SNOW FOAM WITH A 1:1500 MIX RATIO

CS-F1 is a PPF-specific shampoo formulated to cling to PPF surfaces with dense, long-lasting foam, increasing dwell time so contaminants can be safely emulsified and lifted without stressing the film's top coat. The extended adhesion helps loosen dirt, road grime, and stubborn residues while remaining gentle on PPF, coatings, and sensitive finishes reducing the risk of streaking, haze, or premature top-coat wear. As a bucket-wash shampoo, it can be diluted up to 1:1500, delivering excellent economy without sacrificing cleaning power. For foam-lance use, a 1:25 dilution produces thick, stable foam that blankets the vehicle to maximize contact time and cleaning efficiency. Whether used by hand or through a pressure-activated foam system, it provides a highly effective, PPF-safe wash designed to maintain clarity, gloss, and water behavior over time.

CNS TECH INC

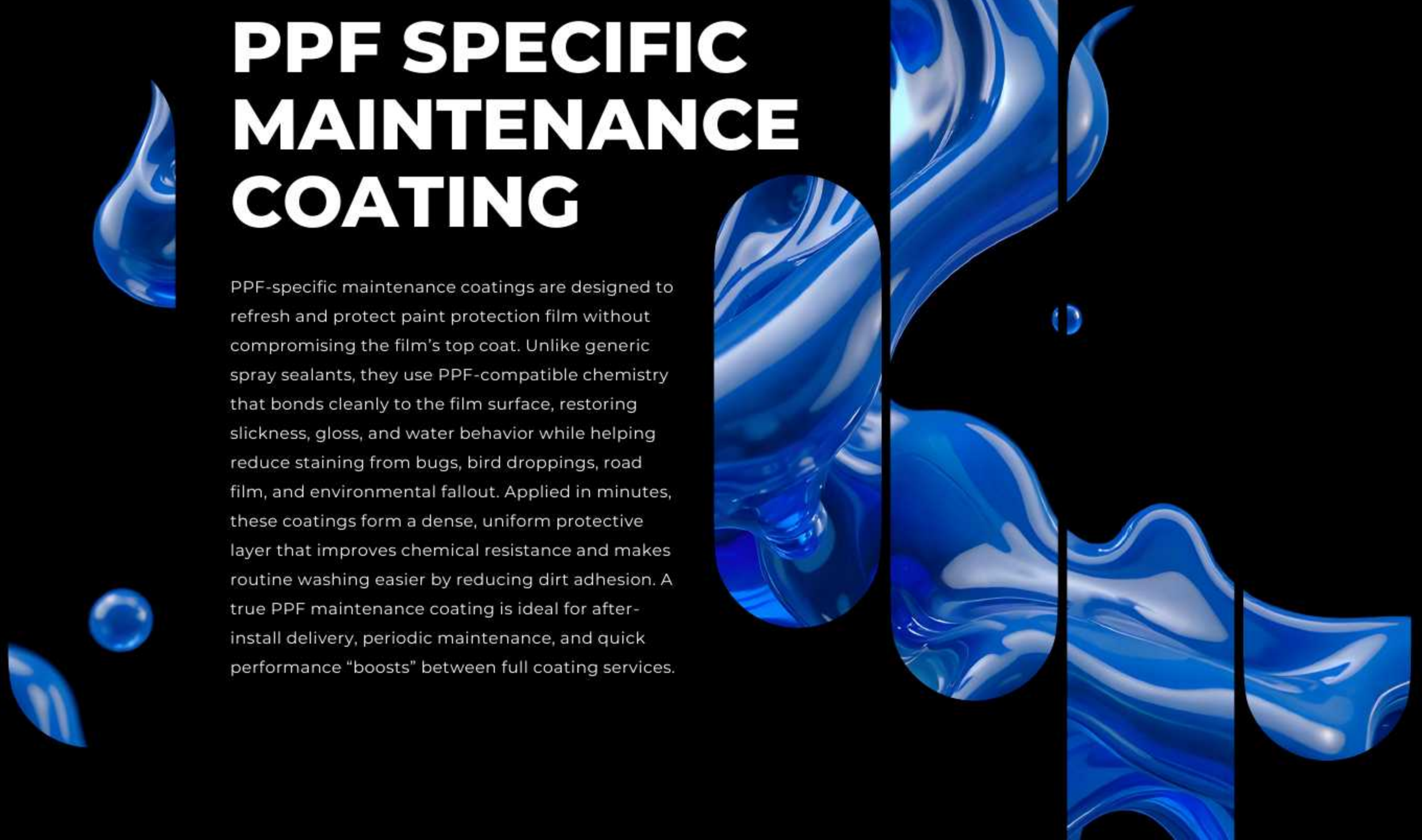
CS-WS1

PAINT PROTECTION FILM SPECIFIC WATERLESS SHAMPOO

CS-WS1 is a PPF-specific waterless shampoo designed for quick, safe spot-cleaning without rinsing. Ideal for removing fresh bug splatter, bird droppings, and light road contamination before they stain the film. Its PPF-safe cleaning agents lift and encapsulate dirt while high-lubricity polymers provide a smooth wipe-off, helping minimize micro-marring on the film's top coat. Simply spray, allow a short dwell time to soften contamination, then gently wipe with a clean microfiber and buff dry. The formula leaves no oily or surfactant-heavy residue that could interfere with PPF performance, making it a convenient solution for fast touch-ups at the shop or on the road while preserving clarity, gloss, and water behavior.

PPF SPECIFIC MAINTENANCE COATING

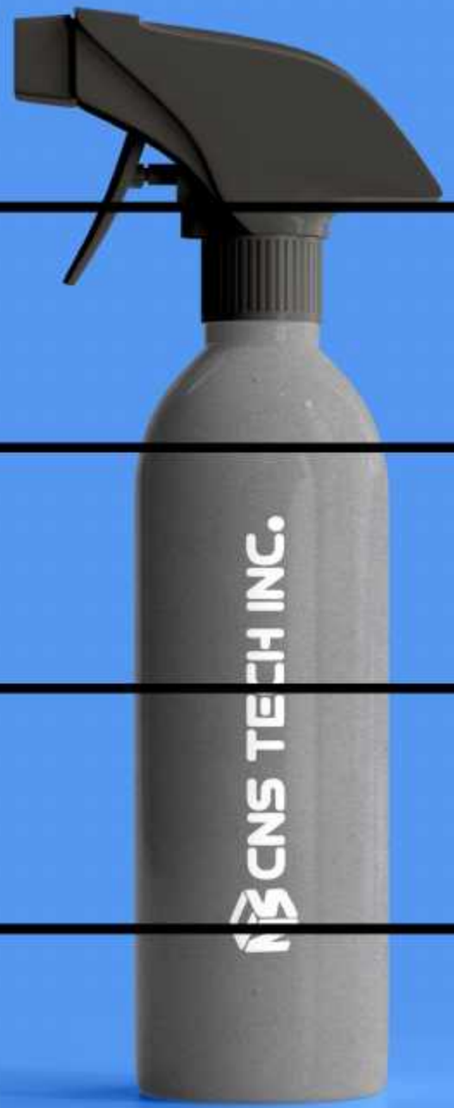
PPF-specific maintenance coatings are designed to refresh and protect paint protection film without compromising the film's top coat. Unlike generic spray sealants, they use PPF-compatible chemistry that bonds cleanly to the film surface, restoring slickness, gloss, and water behavior while helping reduce staining from bugs, bird droppings, road film, and environmental fallout. Applied in minutes, these coatings form a dense, uniform protective layer that improves chemical resistance and makes routine washing easier by reducing dirt adhesion. A true PPF maintenance coating is ideal for after-install delivery, periodic maintenance, and quick performance "boosts" between full coating services.



MC-PR1

MC-PR1 is a PPF-specific quick coating designed for fast, effortless application and reliable performance on paint protection film. It can be used like a traditional quick detailer, simply spray and wipe for an instant boost in water behavior or applied as a wet coat by spraying onto a wet surface and activating it with high-pressure water for a no-buff finish. There is no need to dry the vehicle beforehand. Whether you prefer a quick spray-and-wipe method or a convenient spray-and-rinse approach, MC-PR1 delivers immediate, PPF-safe protection with minimal effort.

- **Durability: Up to 2 months**
- **Hardness: 8H**
- **Roll-off Angle: 9~12 °**
- **Water Repellency: 115°**
- **Thickness: 100~200nm**
- **Final Cure: 48 hours**
- **Initial Cure: Heat Treated – 10 minutes / Room Temp – 1 hour**
- **Applicable Materials: Exterior Parts**



MC-PG1

MC-PG1 is a PPF-specific, water-based maintenance ceramic coating formulated with genuine liquid ceramic to deliver long-lasting protection without compromising PPF top coats. Designed to bond cleanly to paint protection film, it restores gloss, slickness, and strong water behavior while helping reduce staining from bugs, bird droppings, road film, and environmental fallout. Engineered for versatility, MC-PG1 can be used as a standalone spray-on coating on PPF or as a maintenance layer to reinforce existing PPF coatings. Its easy application makes it ideal for routine upkeep, after-wash protection boosts, and extending the performance life of the film's protective surface.

- **Durability: Up to 4 months**
- **Hardness: 9H**
- **Roll-off Angle: 5~10 °**
- **Water Repellency: 110°**
- **Thickness: 200~400nm**
- **Final Cure: 48 hours**
- **Initial Cure: Heat Treated – 20 minutes / Room Temp – 1 hour**
- **Applicable Materials: Exterior Parts**

MC-PO1

MC-PO1 is a high-end, PPF-specific maintenance coating engineered to maximize performance on paint protection film without compromising the film's top coat. Its advanced formulation delivers exceptional water repellency, strong chemical resistance, enhanced gloss, superior slickness, and improved resistance to light marring, creating a dense, long-lasting protective layer that elevates both appearance and durability. Designed for professional results, MC-PO1 can be applied as a premium standalone coating on PPF or used as a top-tier maintenance layer to reinforce existing PPF coatings. In both applications, it restores the film's fresh finish, strengthens protection against staining and environmental contamination, and helps maintain a premium look for an extended period.

- **Durability: Up to 4 months**
- **Hardness: 9H**
- **Roll-off Angle: 4~8 °**
- **Water Repellency: 115°**
- **Thickness: 300~500nm**
- **Final Cure: 48 hours**
- **Initial Cure: Heat Treated–30 minutes / Room Temp–2 hours**
- **Applicable Materials: Exterior Parts**

ADDITIONAL PRODUCTS

At the core of CNS TECH is a commitment to unconventional thinking and the courage to challenge industry norms. This spirit has driven us to pursue ceramic coating research, development, and manufacturing across four continents worldwide. Our forward-thinking philosophy fuels continuous evolution, enabling us to create coatings that consistently exceed expectations. Every product is meticulously formulated to deliver exceptional performance and unmatched quality.Prepare to experience a world of limitless possibilities.

EC-GL1

EC-GL1 is a specialized coating designed exclusively for automotive glass. It delivers outstanding water and oil repellency, outperforming most glass coatings on the market. In addition, EC-GL1 offers an excellent roll-off angle and strong anti-pollution performance, helping keep the glass cleaner for longer. By improving visibility and ensuring smooth wiper operation without juddering, EC-GL1 enhances overall driving safety and comfort.

- **Durability: Up to 36 months**
- **Hardness: 10H**
- **Roll-off Angle: 3~7 °**
- **Water Repellency: 115°**
- **Thickness: 200~300nm**
- **Final Cure: 24 hours**
- **Initial Cure: Heat Treated – 10 minutes / Room Temp – 1 hour**
- **Applicable Materials: Glass**

GLASS SPECIFIC CERAMIC COAT

EC-GL1

EC-LT1

EC-LT1 is a professional-grade ceramic coating developed specifically for leather surfaces, offering comprehensive protection and long-lasting enhancement. Its advanced formula shields the leather from pollutants, friction, and liquid absorption, helping prevent common issues such as color fading, cracking, and surface wear. EC-LT1 is also highly effective at resisting jean transfer stains and other daily contaminants. In addition to its protective capabilities, the coating enriches the surface with a premium matte sheen, preserving the leather's natural texture while elevating its overall appearance. With EC-LT1, leather surfaces remain cleaner, more durable, and visually refined for an extended period.

- **Durability: Up to 24 months**
- **Roll-off Angle: 3~6 °**
- **Thickness: -**
- **Initial Cure: Room Temp – 2~3 hours**
- **Applicable Materials: Leather Surface**
- **Hardness: -**
- **Water Repellency: 115°**
- **Final Cure: 12 hours**

LEATHER CERAMIC COAT

EC-LT1

EC-AT1

EC-AT1 is a premium ceramic coating designed specifically for black plastic trim, restoring and protecting exterior plastics with remarkable ease. The formula self-levels on its own, no buffing required. It forms a smooth, thick, and durable protective layer, deepens the original color, removes light scratches and whitening, and delivers excellent water repellency, chemical resistance, and anti-pollution performance to keep trim looking brand new. Flexible and long-lasting, the coating will not peel, crack, or deteriorate, ensuring a rich, clean finish that endures.

- **Durability: Up to 12 months**
- **Hardness: -**
- **Roll-off Angle: 4~8 °**
- **Water Repellency: 115°**
- **Thickness: 500~800nm**
- **Final Cure: 3 Days**
- **Initial Cure: Heat Treated – 1 hour / Room Temp – 3~5 hours**
- **Applicable Materials: Black Plastic Trim Parts**

TRIM SPECIFIC CERAMIC COAT

EC-AT1

CNS TECH INC

OEM/ODM PROCESS

CNS has been developing over 300 different coating products because we know that a whole different coating may be needed according to the type of surface/ purpose/ environment/ use/ etc. Through continuous R&D CNS holds a wide range of ceramic coatings used for House & Buildings / Industrial Uses / Floors / Automobile & Transportation / Aircrafts / Marine / Raw Materials and a lot more.

1

R&D INQUIRY

Upon receiving the request form, we review and discuss key elements including material selection, functional requirements, pricing structure, and projected monthly consumption.

2

SAMPLING

Following the meeting, we provide recommended product samples and dispatch them for performance testing.

3

MODIFICATION

If product adjustments are required, they will be implemented and the updated samples will be sent for a second evaluation.

4

DELIVERY

Once the final formula is approved, production begins in accordance with the order requirements.

CERAMIC COATING COMPARISON TEST

Our structured comparison testing enables an unbiased, data-driven evaluation of our partners' existing formulas against our proprietary solutions.

GLOSS

The gloss test evaluates the visual brilliance of the coated surface. A higher gloss reading signifies a brighter, more reflective appearance.

SLEEKNESS

The sleekness test evaluates the surface's slipperiness, which correlates directly with its self-cleaning performance and scratch-prevention capability.

ROLL-OFF

The roll-off test evaluates the ease with which water and contaminants detach from the surface. Superior roll-off performance enhances cleanliness and minimizes water-spot issues.

WATER-REPELLENCY

The water-repellency test evaluates the coating's ability to repel liquids. Higher contact angles signify superior hydrophobic performance, allowing the surface to stay cleaner while minimizing water-spot buildup.

ANTI-POLLUTION

The anti-pollution test evaluates the coating's resistance to aggressive chemical contaminants. Superior resistance reflects stronger surface protection and enhanced long-term durability.

USABILITY

The usability test assesses the overall ease of application, ensuring the coating can be applied smoothly and efficiently under real-use conditions.

R&D Based Manufacturer

At the heart of CNS TECH is a commitment to thinking differently and challenging convention. This mindset has driven us to research, develop, and manufacture ceramic coating technologies across four continents worldwide, supporting more than 50 companies and contributing to over 300 global projects. Our dedication to innovation continues to expand our reach and redefine what's possible in the surface-protection industry.

WWW.CNSTECHLAB.COM

50+

Trusted by and supplying to over 50 companies across the globe.

300+

Proudly completed more than 300 successful projects worldwide.

CONTACT US

CNS TECH INC

Our mission is to contribute to protecting the environment and help everyone to live a healthy and prosperous life through our business. We pursue future values with our spirit of challenge, innovation, and happiness.

Website
www.cnstechlab.com

E-mail
Contact@cnstechlab.com