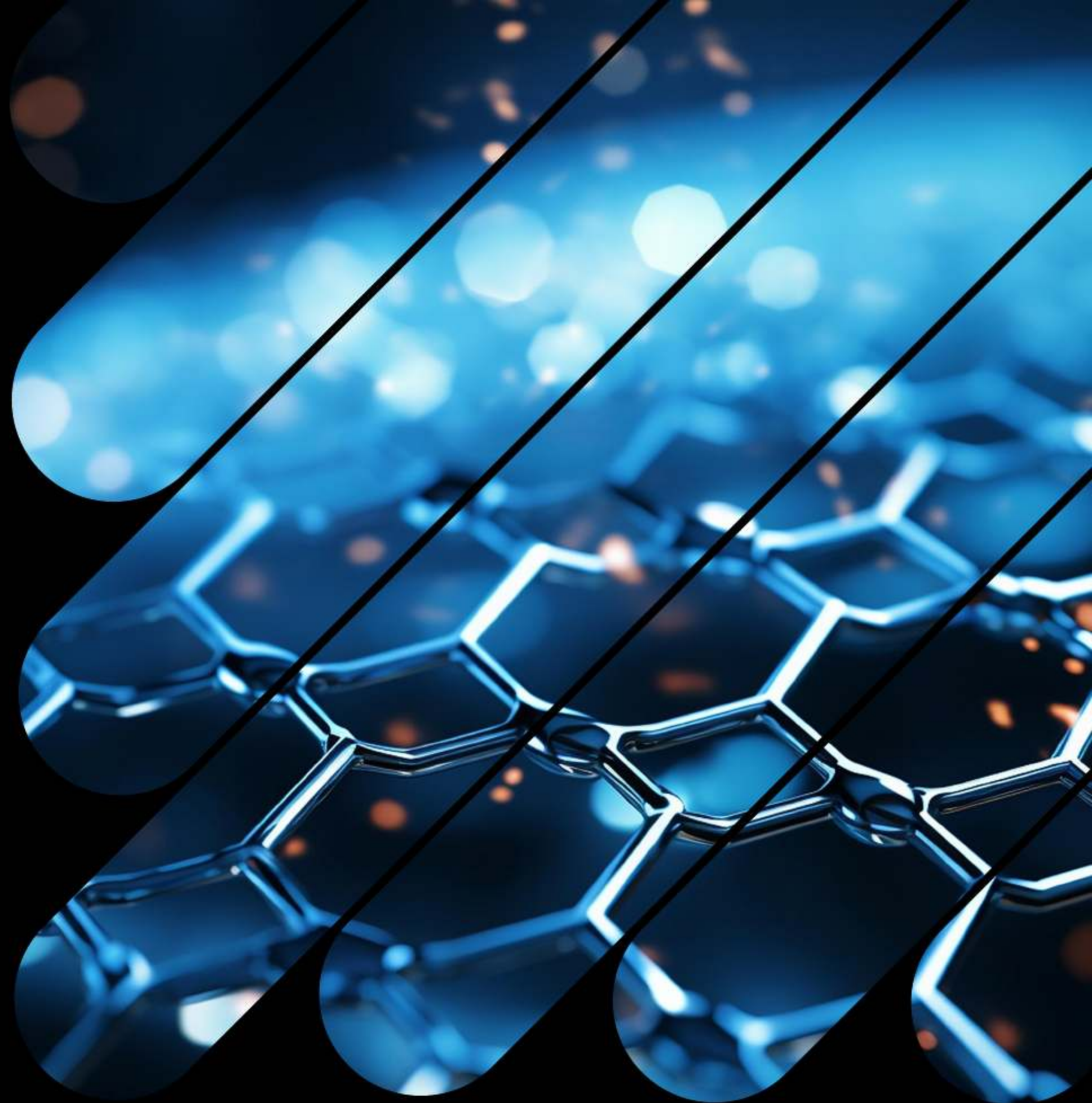




CNS TECH INC

R&D BASED CERAMIC COATING MANUFACTURER

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





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 However, the majority of products in today's market still rely on outdated formulations.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

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.

WHY TRUE AUTOMOTIVE 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

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 150~300%
- Very stable, and easy to use

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.

HYPE AROUND BOROPHENE

As previously mentioned, the market is filled with misleading information and hype. Recently, some brands have begun promoting Borophene coatings as the next generation of ceramic technology. However, similar trends have appeared many times in the past, titanium coatings, diamond-powder coatings, and other so-called “special” ceramics. None of them lasted long, because the market quickly realized there was nothing truly unique or meaningful about their performance.

BOROPHENE COATINGS ARE NOT SCIENTIFICALLY VIABLE IN PRACTICAL AUTOMOTIVE APPLICATIONS.

1

Borophene is extremely unstable; it breaks down on contact with oxygen or moisture.

2

Borophene cannot be dispersed effectively in liquid coatings.

3

Similar to past marketing fads with no real technical benefit.

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

EASIER AND MORE STABLE DISPERSION

CNTs disperse more consistently in liquid formulas compared to graphene. They are less reactive, less prone to clumping, and easier to stabilize, making them far more practical for mass production and more reliable across large batch sizes.

3

HIGHER PERFORMANCE-TO-COST RATIO

CNTs offer dramatic performance improvements (200–500%) while being significantly more affordable than high-quality graphene. This allows 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

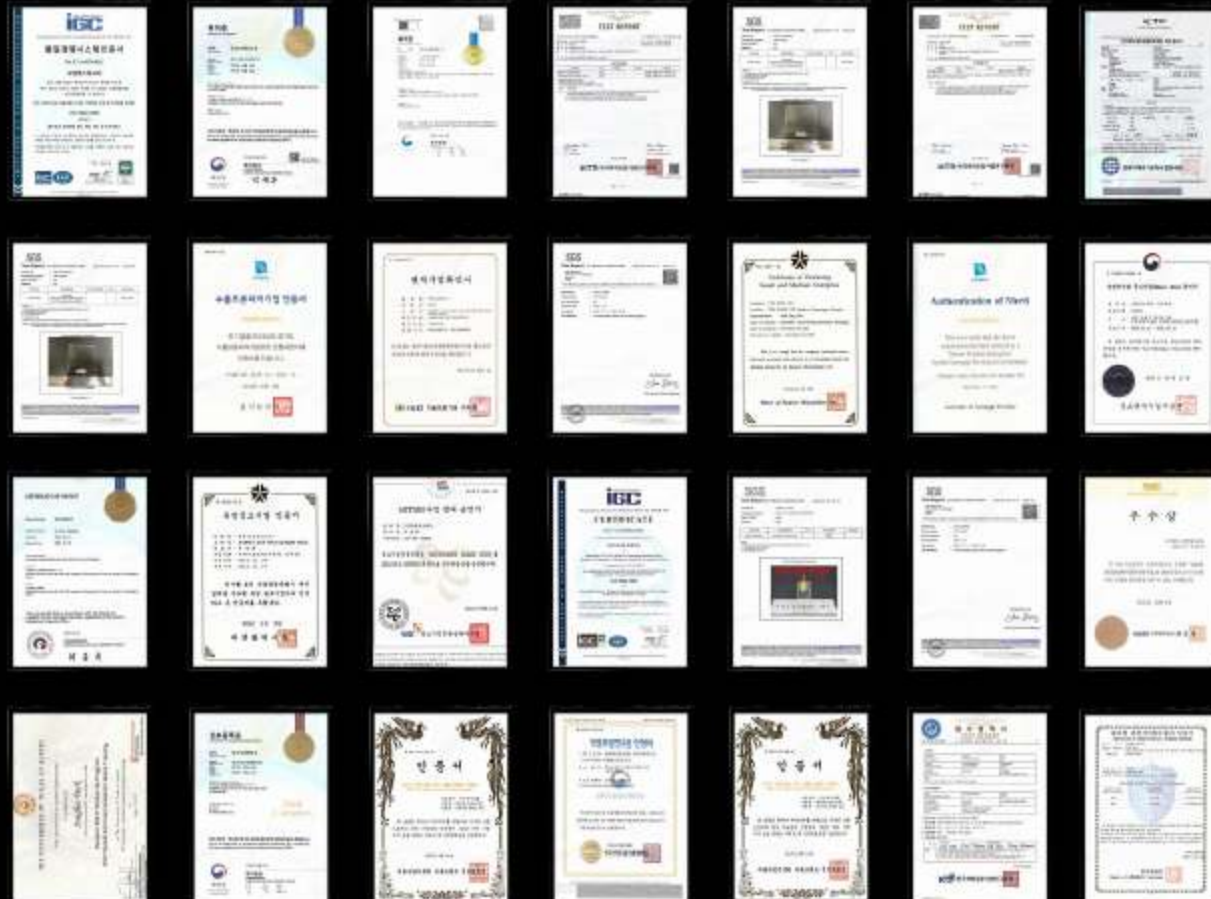
Improved dispersion prevents haze and staining, delivering a sharper, high-gloss surface.

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.



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 continues 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.

HOME & BUILDING CERAMIC COATINGS

Full interior and exterior protection for residential, commercial, and government properties.

INDUSTRIAL CERAMIC COATINGS

High-performance ceramic coatings for raw materials, semiconductor equipment, premium watches, and a wide range of specialized industries.



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 continues 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.

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.

GLOSS

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

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.

SLEEKNESS

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

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.

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