

# SIOResin Unveils High-Performance Self-Crosslinking Nano Silicone Resin for Multi-Industry Coatings

*Advanced Protection for Stone, Metal, and More with SIOResin® SIO-513 Nano Silicone Resin*

NEW YORK, NY, UNITED STATES, November 5, 2024 /EINPresswire.com/ -- SiO New Material ([SIOResin](https://www.sioresin.com)) is thrilled to introduce SIOResin® SIO-513, an advanced [self-crosslinking nano silicone resin](https://www.sioresin.com) topcoat that delivers superior durability and protection across various surfaces. The product is designed for use on materials such as stone, plastic, metal, and glass and is particularly suitable for high-performance decorative applications in the automotive, aerospace, and consumer electronics sectors.



High-Performance Self-Crosslinking Nano Silicone Resin

## High-Performance Features Tailored for Rigorous Demands

SIOResin® SIO-513 stands out for its advanced durability and resilience under challenging environmental conditions, offering a robust solution for industries demanding high-performance surface protection. Key features include:

- 1, High Gloss and Fullness: Provides a glossy, full finish ideal for decorative parts.
- 2, Superior Hardness and Adhesion: Achieves a pencil hardness of 4-5H, demonstrating high durability and strong adhesion.
- 3, Anti-Graffiti and Self-Cleaning Properties: Functions effectively as an anti-graffiti and self-cleaning coating, especially suitable for glass surfaces.
- 4, Corrosion and Chemical Resistance: Endures over 2,000 hours of neutral salt spray resistance, demonstrating resilience against nitric acid, alkali, and MEK solvents.
- 5, Anti-Aging and Yellowing Protection: Guards against oxidation and yellowing, preserving appearance and longevity.

These properties make SIO-513 an ideal solution for aluminum and stainless-steel components used in car trims, aircraft interiors, mobile devices, and high-speed train exteriors.



## Adaptable Curing Options for Flexible Use

SIOResin® SIO-513 provides flexible curing conditions to accommodate diverse application needs:

**Room Temperature Curing:** Dries in two hours at ambient temperature, reaching maximum hardness after seven days.



SIO-513 Nano Silicone Resin has transformed our coatings, providing outstanding durability & gloss. Its high hardness and anti-fouling properties are ideal for long-lasting protection on glass.”

*Scott*

**Low-Temperature Baking:** Cures at 170°C for 20-30 minutes, achieving 3H hardness within 24 hours and 4-5H after seven days.

Endorsement from SIOResin’s CEO, Mr. Zhang

Reflecting on the development of SIOResin® SIO-513, Mr. Zhang, CEO of SIOResin, stated: “Our goal with SIO-513 was to create a product that meets and exceeds the needs of modern industries for high-performance, environmentally sustainable coatings. The nano silicone resin technology not only provides unparalleled protection but also reflects

our commitment to eco-friendly solutions. We are confident that SIO-513 will become an essential tool for our clients worldwide.”

## Rigorous Testing for Reliable Results

SIOResin® SIO-513 has undergone rigorous testing in line with industry standards, including abrasion, scratch, and humidity resistance. Test results affirm its resilience and durability, with excellent performance in fuel resistance, wash scratch resistance, and high-humidity endurance, making it an optimal choice for demanding environments.

## Eco-Conscious Innovation with Industrial Benefits

Aligned with SiO New Material’s dedication to environmentally friendly innovation, SIOResin® SIO-513 meets strict environmental standards, minimizing hazardous substances and ensuring safe use across industries.

## About SIOResin

SIOResin is a leading manufacturer specializing in innovative waterborne raw materials, offering

comprehensive solutions for R&D, production, sales, and services. With a market-driven approach and a commitment to continuous innovation, SIOResin serves a wide range of industries including coatings, cosmetics, textiles, biology, machinery, construction, and medicine. Their product extensive product line includes [water-based Polyurethane](#), waterborne Acrylic Resin, water-based Additives, Silicone Resin, Silicone Rubber, and waterborne curing agents, etc. Supported by a team of experts and multiple national patents, provide high-quality, competitive solutions that help clients succeed.

More Products:

<https://www.sioresin.com/water-based-polyurethane.html>

<https://www.sioresin.com/silicone-resin.html>

<https://www.sioresin.com/uv-cure-resin.html>

<https://www.sioresin.com/waterborne-acrylic-resin.html>

<https://www.sioresin.com/additives.html>

For more information or to request samples, please visit <https://www.sioresin.com> or contact [sales@sioresin.com](mailto:sales@sioresin.com)

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