

# SioResin's Water-Based High-Temperature Silicone Resin Emulsion Formulate Coatings for 200~1000°C Applications

*Innovative, Eco-Friendly Solution Gains Global Acclaim for Versatile Applications and Superior Performance*

NEW YORK, NEW YORK, USA, July 2, 2024 /EINPresswire.com/ -- [SioResin](https://www.sioresin.com/) has announced the launch of [Silicone Resin SiO-715](https://www.sioresin.com/silicone-resin/sio-715-high-temperature-resistance-silicone-resin.html), a groundbreaking water-based high-temperature silicone resin emulsion. This new product is set to redefine environmental safety and performance standards in the coatings industry.

Innovative and Eco-Friendly Solution Silicone Resin SiO-715 addresses the growing market demand for ultra-high-temperature resistant coatings while prioritizing environmental sustainability. Unlike traditional solvent-based silicone resins that rely on harmful substances like toluene and xylene, SiO-715 is completely water-based. This formulation significantly reduces VOC emissions and minimizes health risks for operators. Product detail: <https://www.sioresin.com/silicone-resin/sio-715-high-temperature-resistance-silicone-resin.html>

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This product represents our commitment to innovation and sustainability.”

*Martin*

## Key Features and Benefits

1. Outstanding high-temperature resistance (up to 200~1000°C)
2. Excellent Water Dilution Capability: SiO-715 offers outstanding water dilution, low odor, and is free from

hazardous solvents, ensuring compliance with stringent environmental regulations.

3. Superior Stability: This resin emulsion maintains excellent stability under high-speed dispersion, heat storage, centrifugation, and dilution. It is resistant to acids and bases, making it



Water-Based High-Temperature Silicone Resin Emulsion

versatile for various applications.

4. Exceptional Film-Forming Properties: SiO-715 quickly surface dries at room temperature, providing excellent wetting and leveling properties. When fully cured, the coating film demonstrates remarkable thermal stability, weather resistance, and salt spray resistance.

5. Robust Performance: The fully cured coating film exhibits good hardness, toughness, abrasion resistance, impact resistance, and chemical resistance, making it ideal for high-temperature and demanding environments.

### Global Acclaim and Versatile Applications

Since its launch, Silicone Resin SiO-715 has received positive feedback from customers across China, Europe, South America, the Middle East, and Southeast Asia. Its applications are diverse, including high-temperature-resistant water-based coatings for household appliances, cookware, stoves, fireplaces, ovens, kilns, automotive exhaust systems, and more. Additionally, it is suitable for weather-resistant and anti-corrosive outdoor metal coatings, water-based insulating coatings for electronic components, and heavy-duty anti-corrosive applications.

### Comprehensive Application Solutions and Formulations

SioResin offers four tailored application solutions and formulations for SiO-715:

1. High-Temperature Ceramic Glass Coating Water-Based

<https://www.sioresin.com/blog/high-temperature-ceramic-glass-coating/>

2. High-Temperature Graphene Silicone Resin Coating

<https://www.sioresin.com/blog/high-temperature-graphene-silicone-resin-coating/>

3. High Temperature Insulation Coating Formulation

<https://www.sioresin.com/blog/high-temperature-insulation-coating/>

4. Water-Based High-Temperature Resistance Silicone Resin Coatings

<https://www.sioresin.com/blog/high-temperature-coatings-formulation/>

These solutions enhance the versatility and effectiveness of SiO-715, catering to a wide range of industry needs.

### Technical Specifications

Appearance: Milky white liquid with a bluish tint

pH Value: 8-9

Solid Content: 45-50%

Kinematic Viscosity: 20-100 Cp

Density: 1.02-1.11 kg/l

### Optimal Curing Conditions

For the best performance, it is recommended to fully cure SiO-715 coatings at 200-280°C for 10-60 minutes. Optimal results are achieved at 220°C for 30 minutes or 280°C for 10 minutes, ensuring superior salt spray and chemical resistance.

### CEO Martin Zhang's Statement

"We are thrilled to introduce SiO-715 to the global market. This product represents our

commitment to innovation and sustainability," said Martin Zhang, CEO of SioResin. "Our team has worked tirelessly to develop a solution that not only meets the high-performance demands of our customers but also aligns with our environmental goals. We believe SiO-715 will make a significant impact in various industries, and we look forward to seeing its widespread adoption."

#### Commitment to Quality and Innovation

SioResin is dedicated to advancing material science with innovative solutions that meet market demands while adhering to the highest environmental and safety standards. SiO-715 is a testament to this commitment to quality, innovation, and sustainability.

#### About SioResin

SioResin (Guangzhou SIO New Materials Co., Ltd) is a leading new materials supplier specializing in the production and export of high-quality silicone-based products, including the versatile Water-based Polyurethane Resin, Water-based acrylic Resin, Water-based [UV resin](#) and Water-based silicone resin, etc. With a commitment to innovation and customer satisfaction, the company has established itself as a trusted partner for businesses across various industries worldwide.

More information: <https://www.sioresin.com/index.html>

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

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