



Technical Data Sheet

DOWSIL™ RSN-0808 Resin

Silanol-functional silicone resin in xylene

Features & Benefits

- Excellent flexibility
- Excellent gloss retention
- Color retention
- Corrosion resistance
- Good heat resistance
- Useful leafling properties with metallic pigmented paints
- Weatherability

Applications

- Decorative finishes based on DOWSIL™ RSN-0808 Resin are recommended for use on space heaters, incinerators, clothes dryers, stoves and other appliances requiring excellent color and gloss retention up to a temperature of 540°C.
- Protective coatings formulated with DOWSIL™ RSN-0808 Resin have excellent weather resistance and can be used on outdoor signs, motor frames, air conditioning units and other such equipment that can be baked at elevated temperatures.
- Aluminum paints based on DOWSIL™ RSN-0808 Resin are serviceable up to 650°C. For improved hardness blends of DOWSIL™ RSN-0808 Resin with DOWSIL™ RSN-0840 Resin are recommended.
- DOWSIL™ RSN-0808 Resin can also be used to formulate heat-resistant aluminum protective coatings; Note: for superior leafling properties, consider DOWSIL™ RSN-0805 Resin.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Resin solids	%	50
Solvent		Xylene
Color		Pale straw
Color (Gardner Scale)		2
Specific gravity at 25°C/15.6°C		1.01
Viscosity at 25°C	mPa.s	80 to 200
Gardner Holdt		D to H
Flash point - closed cup	°C	27
Curing time at 200°C	hours	1-2
Curing time at 250°C	hours	1
Theoretical Residual Silicon Dioxide	%	57
Phenyl/Methyl Ratio		0.6/1.0
Degree of Substitution		1.5

How to Use

The addition of metallic driers such as zinc or cobalt octoate will improve the hardness, rate of cure, and heat resistance of DOWSIL™ RSN-0808 Resin. Suggested amounts are 0.1 to 0.2 percent metal based on the resin solids. Lead catalysts or lead- containing pigments should not be used in silicone resins; even containers with soldered seams will often cause gelation.

DOWSIL™ RSN-0808 Resin can be thinned with ketones, chlorinated solvents, glycol ethers, esters, butanol and aromatic solvents.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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