



Technical Data Sheet

DOWSIL™ RSN-0233 Flake Resin

100 percent silicone, silanol-functional resin for use as a binder for powder and liquid coatings

Features & Benefits

- Good heat stability
- Good weatherability

Composition

- Flaked solid resin
- Silanol functional

Applications

DOWSIL™ RSN-0233 Flake Resin is used primarily:

- As a powder coating binder or co-binder to improve heat stability and weatherability
- In high-temperature coatings where initial hardness and hot hardness are desired
- As a blending resin with other silicone resins to improve hardness
- As a blending resin in solvent-based organic coatings to improve film properties

Typical Properties

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

CTM ¹	Property	Unit	Result
0208	Solids Content	%	99
0540	Specific Gravity at 25°C (77°F)		1.32
0874	Melt Viscosity at 140°C (284°F)	cP	500
0090	Flash Point, Closed Cup	°C (°F)	138 (280)
0598	Silanol Content	%	5.0
	Theoretical Residual Silicon Dioxide	%	55
	Phenyl / Methyl Ratio		1.3
	Degree of Substitution		1.15
	Solubility		Ketones, esters, aromatics and chlorinated solvents

1. CTMs (Corporate Test Methods) correspond to standard ASTM (American Society for Testing and Materials) tests in most instances. Copies of CTM procedures are available upon request.

**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.

**Usable Life and
Storage**

When stored at or below 25°C (77°F) in original, unopened container, this product has a usable life of 21 months from the date of production.

Opened containers should be tightly closed after use to prevent contaminants and water vapor from entering the product. Maximum storage temperature should be maintained at or below 25°C (77°F).

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.

dow.com

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