



Technical Data Sheet

DOWSIL™ 8005 Waterborne Resin

A waterborne, elastomeric siloxane emulsion used as binder that provides fast film forming with high flexibility and heat stability in high temperature coating applications.

Features & Benefits

- Binder in emulsion
- Solventless
- No further catalyst needed
- Cures to form films
- Elastomeric properties
- Low VOC formulations
- Room temperature cure
- Fast tack-free film
- Stable at high temperatures
- High flexibility

Composition

- Waterbased siloxane emulsion

Applications

- Protection of metal and glass, where high elasticity is required. Can be formulated as protective clearcoat, and/or with pigments, to improve thermal resistance and insulative properties of a coating.

Typical Properties

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

CTM ¹	Property	Unit	Result
0176	Appearance		White liquid
0768/0097	Specific Density (25°C)		1.00–1.05
0050	Viscosity – Rot. Viscometer	cPo	< 800
0007	pH (25°C)		10.5–11.5
0208	Dry Content	%	45.0–55.0

1. CTM (Corporate Test Method) correspond to ASTM standard tests in most instances. Copies of CTM procedures are available upon request.

Description	DOWSIL™ 8005 Waterborne Resin is a waterborne siloxane emulsion. Thanks to the network generated during room temperature drying, the resin rapidly forms a film with high flexibility. DOWSIL™ 8005 Waterborne Resin can be used as a sole binder or in combination with other waterborne binders, in both clear and pigmented formulations. Good compatibility with acrylic emulsions.
How to Use	DOWSIL™ 8005 Waterborne Resin dries rapidly at room temperature, without any additional catalyst.
Application Data	Due to its chemical structure, films made with DOWSIL™ 8005 Waterborne Resin present excellent flexibility and heat resistance. DOWSIL™ 8005 Waterborne Resin can be used to form thick films (> 10 mm), and can work in synergy with DOWSIL™ 8004 Waterborne Resin when superior flexibility is needed. Guide formulations and more detailed application data on request.
Caution	Strong stirring is required before using DOWSIL™ 8005 Waterborne Resin. Use with adequate ventilation.
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 in original, unopened container at or below 25°C (77°F) and higher than 5°C (40°F), DOWSIL™ 8005 Waterborne Resin has usable time of 540 days from date of manufacture. Opened containers should be tightly closed after use to prevent contaminants from entering the product and water evaporation.
Limitations	This product is neither tested nor represented as suitable for medical or pharmaceutical uses.
Health and Environmental Information	<p>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.</p> <p>For further information, please see our website, dow.com or consult your local Dow representative.</p>
Disposal Considerations	<p>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.</p> <p>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.</p>

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Customer Notice

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