

SiSiB® SR8701 Methyl MQ Resin Dispersion

INTRODUCTION

SiSiB® SR8701 is a methyl silicone MQ resin dispersion with 50% active content in low-viscosity polydimethylsiloxane. This liquid resin offers excellent compatibility with various silicone systems, enhancing mechanical strength, surface hardness, and thermal stability.

EFFECTS

- Easy incorporation
- Solvent-free
- Excellent thermal stability and film formation
- Ensure uniform dispersion
- Easy to dilute with organic solvents

PHYSICAL PROPERTIES

Appearance	Transparent viscous liquid
Color	Colorless or pale yellow
Viscosity (25°C) cSt	>10,000 (or be customized)
M/Q ratio	0.6-0.9
Volatiles (150 °C, 3h, %)	Max.1.0

These values are typical and are not intended for use as specifications.

APPLICATIONS

SiSiB® SR8701-50 is mainly used as a functional additive in release agent, defoamer, and silicone sealant formulations.

In release agents, the MQ resin forms a durable and heat-resistant silicone film on the mold surface, providing superior anti-adhesion, thermal stability, and mold cleanliness compared with conventional silicone oils. It effectively minimizes product sticking and build-up, extends mold life, and ensures a smooth surface finish in thermoplastic, rubber, polyurethane, and epoxy molding processes.

In defoamers, the incorporation of MQ resin enhances both foam-breaking efficiency and long-term foam suppression. The rigid MQ structure reinforces the silicone matrix, improving heat, shear, and chemical resistance, making it ideal for high-temperature, high-solids, and alkaline systems such as coatings, adhesives, and industrial chemical processes.

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In silicone sealants, SiSiB® SR8701-50 acts as a resin modifier or reinforcing component, improving surface hardness, adhesion, gloss retention, and weather resistance. It enhances the cohesive strength and long-term durability of the cured sealant while maintaining excellent transparency and elasticity.

PACKING

SiSiB® SR8701 is available in 20Kg plastic drum and 200Kg steel drum.

HANDLING

This document does not contain the product safety information required for safe use. Before handling, please refer to the product and safety data sheets, as well as container labels, for information on safe usage, physical hazards, and health risks. Safety Data Sheet is available on the website, from the distributor, or by contacting SiSiB customer service.

STORAGE

SiSiB® SR8701 can crosslink or self-condense in the presence of moisture, making it essential to avoid moisture exposure before final application.

SiSiB® SR8701 Silicone Resin Dispersion has a shelf life of 12 months from the date of manufacture when stored in its original, unopened containers at or below 25°C (77°F). After opening, containers should be tightly sealed to prevent contamination and moisture from entering the product.

NOTE

All information in the leaflet is based on our present knowledge and experience. We reserve the right to make any changes according to technological progress or further developments. Performance of the product described herein should be verified by testing.

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