

SiSiB® SR7001 Silicone Resin Emulsion

INTRODUCTION

SiSiB® SR7001 is a water-based silicone resin emulsion providing outstanding high temperature resistance and excellent yellow-resistance to industrial paints.

EFFECTS

- Low VOC silicone resin emulsion
- Oven curable silicone emulsion
- Minimal yellowing at high temperatures
- Fast tack-free drying at room temperature and strong adhesion
- Excellent compatibility with other organic resins
- Superior thermal stability, centrifugation stability
- Easy thickening capability, ideal for formulating light-colored water-based high-temperature-resistant coatings
- High temperature resistance (1200°C) can be achieved by using suitable pigments and fillers.

PHYSICAL PROPERTIES

Appearance	White milky emulsion
Viscosity (25°C, cPs)	20-500
	ASTM-D2196
Solid Content (%)	40-44
	ASTM-D1259
pH	7-9

APPLICATIONS

SiSiB® SR7001 resin is perfect for industrial and consumer applications requiring heat resistance, including:

- Mufflers and exhaust pipe systems
- Furnaces, ovens, stoves, and stacks
- Fireplaces and flues
- Cast-iron stoves
- Barbecue grills, pots, and pans (high-temperature food-contact coatings)
- Exterior metal coatings

It delivers outstanding high-temperature resistance and yellow-resistance for long-term performance.

USAGE

Complete Curing:

SiSiB® SR7001 Silicone Resin Emulsion

Standard curing: 200-280°C for 10-60 minutes

Optimal curing: 220°C for 30 minutes or 280°C for 10 minutes

After surface drying at room temperature, proceed with baking or accelerate surface drying using low-temperature baking below 80°C.

It is recommended that painted objects be air-dried at room temperature and then dried at progressively higher temperatures.

PACKING

SiSiB® SR7001 is available in 50Kg Pail or 200Kg 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

In the unopened original container SiSiB® SR7001 has a shelf life of 6 months in a dry and cool place at the temperature of 0°C-40°C.

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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