

SiSiB® SR4190 Phenyl Silicone Resin

INTRODUCTION

SiSiB® SR4190 is a solventless, reactive, methoxy-functional phenyl silicone resin. It combines high active content with low viscosity and is designed to provide excellent thermal stability and weather resistance.

Its reactive methoxy functionality enables further hydrolysis and condensation, forming a highly crosslinked silicone network. SiSiB® SR4190 is particularly suitable for high-solids and low-VOC formulations.

EFFECTS

- Solventless and high active content
- Low viscosity and easy formulation
- Reactive methoxy functionality
- Excellent heat and weather resistance
- Contributes to coating flexibility and adhesion
- Suitable for high-solids and low-VOC formulations
- Can be used as a silicone binder or reactive resin modifier

PHYSICAL PROPERTIES

Appearance	Colorless to pale-yellow clear liquid
Viscosity (25°C, mPa·s)	10-200
Active Content (%)	Min.98

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

APPLICATIONS

SiSiB® SR4190 is suitable for heat-resistant industrial coatings, electrical insulating coatings and heat-resistant compounds. Typical applications include coatings for industrial equipment, ovens, grills, tanks, pipelines and metallurgical equipment.

It can also be used as a reactive silicone component in compatible binder systems to improve heat resistance, weatherability and coating durability.

USAGE GUIDELINES

SiSiB® SR4190 can be used as the principal silicone binder in heat-resistant coating formulations or blended with compatible organic resins for resin modification.

Pigments, fillers and solvents with low moisture content are recommended. Excess moisture may cause premature hydrolysis and condensation and

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affect formulation stability.

Pigments and fillers should be thoroughly dispersed in SiSiB® SR4190. Suitable curing agents or catalysts may be used to adjust drying and curing characteristics. Heat curing may also be applied according to formulation and performance requirements.

Compatibility and storage stability should be evaluated before introducing additives, pigments, fillers or other reactive ingredients. Preliminary trials are recommended to determine the optimum formulation and curing conditions.

PACKING

SiSiB® SR4190 is available in 50KG 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

Store SiSiB® SR4190 in the original unopened container in a cool, dry and well-ventilated place. Protect from moisture and direct sunlight. Keep the container tightly closed after opening.

SiSiB® SR4190 has a shelf life of 12 months from the date of manufacture.

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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