

SiSiB® SR5660 Methyl Phenyl Silicone Resin

INTRODUCTION

SiSiB® SR5660 is a methyl phenyl silicone resin supplied as 60 wt.-% solution in xylene.

It is mainly used as binder for coatings. It combines outstanding heat resistance and weatherability.

PHYSICAL PROPERTIES

Appearance	Clear liquid
Color	Colorless to yellowish
Viscosity (T-4 Cup, 25°C, S)	30-70
Solid Content (150°C, 2h, %)	59-61
Solvent	Xylene
Tack Free at Room Temperature	2h
Drying Time (180°C)	2h

APPLICATIONS

SiSiB® SR5660 is particularly suitable for a wide range of heat-resistant coatings. It is ideal for (corrosion protection) coatings for fireplaces, mufflers, exhaust systems, engine components, boilers, furnaces, ovens and oven linings, chimneys, barbecues, electric/gas heaters, incinerators, etc.

Heat-resistant coating formulations using SiSiB® SR5660 in combination with suitable heat-resistant pigments and fillers can achieve thermal stability up to 500°C. Aluminium pigments can be used for silver/grey coatings and black pigments such as iron manganese oxide or copper chrome black spinel for deep black coatings. Platelet-shaped inorganic fillers/extenders such as mica or talc are suitable for such formulations. Pigments and fillers must be well dispersed in the coating.

Degreasing/cleaning and sandblasting of the substrate are recommended to achieve the best corrosion resistance and thermal stability of the metal surface. Adhesion also always depends on the specific coating formulation. Coating application can be carried out by spraying, dipping and brushing.

Coatings made with SiSiB® SR5660 dry at room temperature to form a non-stick film and already provide temporary corrosion protection. Baking at 180°C for 2 hours effectively reduces the risk of cracking at extreme

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temperatures.

SiSiB® SR5660 can be combined with organic resins such as alkyd, acrylic, polyester, and epoxy to develop a variety of temperature-resistant coatings for different applications.

PACKING

SiSiB® SR5660 is supplied in 200Kg steel drum.

STORAGE

SiSiB® SR5660 must be stored in tightly closed original containers with exclusion of moisture. Contact with tin (e.g. with improper metal containers) or moisture will cause gelation.

SiSiB® SR5660 Silicone Resin has a shelf life of 6 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.

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.

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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