

SiSiB® MR1125 Condensation Cure RTV-2 for Moldmaking

INTRODUCTION

SiSiB® MR1125 is a two-component condensation cure RTV-2 silicone rubber for moldmaking applications.

SiSiB® MR1125 consists of a base silicone (Part A) and curing agent (Part B). When mixed at 100:2 by weight, it cures at room temperature to form a flexible elastomer with good tear strength, dimensional stability, and resistance to heat, acids, and alkalis.

KEY FEATURES

- Good flowability
- High tear and tensile strength
- Easy demolding from complex replica parts
- Good heat resistance
- Acid and alkali resistance
- Low linear shrinkage

PHYSICAL PROPERTIES

Color	White
Mixing Ratio	100:2
Mixed Viscosity, mPa·s	25,000-26,500
Pot life (23°C) (Min)	30-40
Demold Time (23°C) (h)	6
Cured Properties	(After 24 h at 23-25°C)
Hardness Shore A	23-27
Tensile Strength (MPa)	4.7
Tear Strength (N/mm)	30
Shrinkage (%)	Max. 0.3
Elongation at Break (%)	510

Typical values are not intended for specification purposes.

APPLICATIONS

SiSiB® MR1125 is suitable for mold fabrication, including replica molds, decorative mold production and other general-purpose moldmaking applications requiring good tear resistance and dimensional stability.

USAGE GUIDELINES

Mixing

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Add 2 parts of curing agent (Part B) to 100 parts of base silicone (Part A) by weight and mix thoroughly until a uniform consistency is obtained.

Degassing

Vacuum degassing is recommended to remove entrapped air. Degassing typically requires less than 10 minutes under appropriate vacuum conditions.

Curing

Pot life at room temperature is approximately 30-40 minutes.

Full mechanical properties are obtained after complete curing.

Cure rate is influenced by temperature and ambient humidity.

PACKING

Part A (Base Silicone) is supplied in 25 kg plastic pails or 200 kg steel drums.

Part B (Curing Agent) is supplied in 1 kg bottles.

Alternative packaging may be available upon request.

STORAGE

When stored below 30°C in original unopened containers, the base silicone and curing agent have a shelf life of 10 months from the date of production.

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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