SiSiB® LR9120 LSR for Textile Coating

INTRODUCTION

SiSiB® LR9120 is a three-component, platinum-catalyzed liquid silicone rubber designed for textile coating applications. The system is solvent-free and provides excellent flowability and adhesion to polyamide and polyester fabrics without primer. It is particularly suitable for knife-coating processes used in functional textile finishing.

KEY FEATURES

- Solvent-free formulation
- Excellent flowability for coating processes
- Primerless adhesion to polyamide and polyester fabrics
- Good mechanical performance after curing
- Flame retardant performance (UL-94 V1)

PHYSICAL PROPERTIES

		Method
Appearance (Uncured)	A: Translucent	
	B: White	
	C: Clear	
Viscosity (**m**Pa.s)	A: 55,000	DIN53019
	B: 45,000	
	C: 3	
After Curing	10min at 140°C	
Specific Density (g/cm3)	1.09	ASTM D792
Hardness (Shore A)	43	ASTM D2240
Tensile Strength (MPa)	4.8	ASTM D412
Tear Strength (kN/m)	12	ASTM D624B
Elongation at Break (%)	280	ASTM D412
Flammability	V1	UL-94

Above values are typical data and should not be used as specification.

APPLICATIONS

SiSiB® LR9120 is specifically developed for textile coating applications requiring flexible, durable, and flame-retardant silicone layers. The material provides excellent adhesion to polyamide and polyester fabrics without the need for primer, making it suitable for efficient knife-coating processes. It is

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particularly recommended for:

- Polyamide fabric coatings
- Polyester fabric coatings
- Functional coated textiles
- Industrial and consumer textile applications

PROCESSING GUIDE

SiSiB® LR9120 is supplied as a three-component system (Part A, Part B and Part C). The components should be mixed thoroughly at a weight ratio of 100:100:1.7. Proper mixing is essential to ensure uniform curing and optimal coating performance.

Vacuum degassing is recommended after mixing to remove entrapped air prior to coating.

At 25°C, the mixed material provides a working time exceeding 4 hours. For best processing stability, it is recommended to use the material within the effective working time.

Recommended curing condition is 180°C for approximately 3 minutes. Actual curing parameters should be optimized according to coating thickness and production line conditions.

After material withdrawal, containers must be sealed immediately to prevent moisture contamination and hydrolysis of reactive components.

PACKING

SiSiB® LR9120 Part A is supplied in 20Kg pail or 200Kg drum.
SiSiB® LR9120 Part B is supplied in 20Kg pail or 200Kg drum.
SiSiB® LR9120 Part C is supplied in 5Kg bottle or 25Kg pail.

STORAGE

In the unopened original container, it has a shelf life of one year when stored at or below 30°C.

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

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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.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

We disclaim liability for any incidental or consequential damages.