

Sikoat™ RC500 Release Coating Base Polymer

INTRODUCTION

Sikoat™ RC500 is a reactive siloxane base polymer designed for use in solvent-free, addition-curing silicone release coating systems. When combined with the appropriate crosslinker and platinum catalyst, it provides stable release performance with low peel force and fast curing. It is mainly developed for paper and film release liner applications.

ADVANTAGES & FEATURES

- 100% active, solvent-free base polymer
- Consistent and controlled release force
- Low peel force, stable even after aging
- Excellent anchorage on paper and film substrates
- Low silicone migration, wide substrate adaptability

PHYSICAL PROPERTIES

Appearance	Colorless clear liquid
Density (20°C)	0.96-0.99
Viscosity (cP, 25°C)	300-400
Initial release force (g/in)	5-7
Aged release force (g/in)	9-13

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

APPLICATIONS

Sikoat™ RC500 is used as release coating base polymer for:

- Release papers for pressure-sensitive adhesive tapes and label stock
- High-speed adhesive tape base coatings
- Industrial single- and double-sided release papers and films
- Anti-stick and anti-adhesive packaging applications

USAGE GUIDELINES

Typical formulation:

Base Polymer	Sikoat™ RC500	100 parts
Crosslinker	Sikoat™ XL1980	2.5 parts
Catalyst	Sikoat™ CAT40	1 part

- Curing condition: 130 °C for 15 seconds
- The prepared coating bath should be used within 6 hours at 25°C

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- Never mix the crosslinker with the catalyst only, as this will cause a reaction that releases hydrogen and generates heat.
- Contamination of addition-type products with "catalyst poisons" (such as tin compounds, amines, and phosphorus- or sulfur-containing compounds) may result in incomplete curing, so interference with these substances must be avoided.
- Store containers tightly sealed in a cool, dark, low-humidity environment, away from high temperatures and direct sunlight. After the container has been opened initially, the product should be used up as quickly as possible.
- Platinum catalysts may exhibit precipitation of some ingredients over time depending on the storage conditions, but this does not affect product quality. Stir thoroughly before use.

PACKING

Sikoat™ RC500 is available in 200Kg Drum or 1000Kg IBC.

STORAGE

When stored at temperatures below 35°C in the original unopened containers, Sikoat™ RC500 has a shelf life of 12 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.

LIMITATIONS

These products are neither tested nor represented as suitable for medical or pharmaceutical uses.

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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