

Sikoat™ RCA20 Release Control Additive

INTRODUCTION

Sikoat™ RCA20 is an organosilicon polysiloxane designed for use as a heavy release force regulator in solvent-free, addition-curing silicone release systems. It offers stable performance with minimal impact on residual adhesion, and provides consistent adjustment of peeling force.

ADVANTAGES & FEATURES

- Easy to incorporate.
- Effective adjustment of release (stripping) force.
- Minimal influence on residual adhesion.
- Stable aged release performance.

PHYSICAL PROPERTIES

Appearance	Colorless to slightly hazy liquid
Active Content (%)	98-100
Viscosity (cP, 25°C)	700-1,400
Density (g/cm ³ , 20°C)	1.01

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

APPLICATIONS

Sikoat™ RCA20 is used as a release control additive in solventless Sikcoat release systems, functioning via polyaddition curing. It can be substituted for 1% to 100% of the base polymer in a solventless system to adjust release force.

Sikoat™ RCA20 enables stable modulation of peel force over time, low “zipping” tendency, and compatibility with double-sided coating without blocking. It is especially effective in systems requiring higher release values with acrylic or rubber-based adhesives, and can be used in both in-line and off-line coating operations.

USAGE GUIDELINES

Reference formulation:

Base Polymer	Sikoat™ RC500	70 parts
Release Control Additive	Sikoat™ RCA20	30 parts
Crosslinker	Sikoat™ XL1980	3.5 parts
Catalyst	Sikoat™ CAT40	1 part

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- Curing condition: 130°C for 15 seconds
- The prepared coating bath should be used within 6 hours at 25°C
- 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™ RCA20 is available in 200kg Drum or 1000Kg IBC.

STORAGE

When stored in original unopened containers at temperatures below 35°C, Sikoat™ RCA20 has a shelf life of 6 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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