

## POWSIL™-59151 Silicone Softener

### INTRODUCTION

POWSIL™ 59151 is a revolutionary linear block amino silicone softener designed to impart a silky, slick, and elastic hand feel to a variety of textiles. Based on ABA block copolymer architecture, it offers excellent durability, re-dyeability, and low yellowing, making it suitable for finishing synthetic fibers, natural fibers, and blends.

POWSIL™ 59151 is self-emulsifying, allowing direct dilution with water without the need for external emulsifiers.

### FEATURES & BENEFITS

- Silky, elastomeric, and re-bounce hand feel
- Excellent shear stability and no roller sticking or oil spots
- No thermal migration or color migration
- Free of emulsifier – no oily feel or migration issues
- Self-emulsifying – no emulsifier needed; easy to dilute with water
- Highly compatible with other finishing agents (e.g., resins, OBAs)
- Re-dyeable and over-dyeable
- Non-yellowing (hindered amine structure)
- Effective at low dosages (1–5 g/L)

### PHYSICAL PROPERTIES

Appearance	Off-white to light yellow liquid
pH (1% solution)	4.0-6.0
Solid Contents (wt %)	28.0-30.0
Viscosity (25°C, cps)	Max.5000
Flash point (Closed cup)	>100°C
Density (25°C)	1.046
Diluents	Water
Ionicity	Slightly cationic to nonionic

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

### APPLICATIONS

POWSIL™ 59151 provides a natural silky and elastomeric hand feel. It is suitable for softening wool, cashmere and other protein fibers, as well as polyester and acrylic synthetic fibers.

### APPLICATION GUIDE

The recommended levels can be used for orientation. Optimal levels are

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determined through a series of laboratory tests.

Padding Process

Dosage:	2 - 20 g/L
pH:	5.0 - 7.0
Dry/Cure	120 - 170°C x 1~3 min

Exhaustion Process

Dosage:	0.2 - 2.0% (o.w.f.)
Liquor ratio:	1:10 - 1:20
pH:	5.0 - 7.0
Temperature:	Ambient 10 - 30 min
Drying:	100 - 170°C x 1-3 min

Garment Washing

Dosage:	1.0 - 3.0% (o.w.f.)
Time:	30 - 60 min
Drying:	100 - 130°C x 3-5 min

Stripping (if needed)

Na <sub>2</sub> CO <sub>3</sub> :	5 g/L
LABS (30%):	2.0 - 5.0%

Heat the fabric in the stripping bath at 100°C for 60 minutes, then rinse thoroughly with acidic water followed by pure water.

**PACKING**

POWSIL™-59151 is available in 50Kg or 120Kg Plastic Drum.

**STORAGE**

In the unopened original container at room temperature POWSIL™-59151 has a shelf life of one year in a dry and cool place.

**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

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technological progress or further developments. Performance of the product described herein should be verified by testing.

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