

POWSIL™-99360 Hydrophilic Silicone Softener

INTRODUCTION

POWSIL™-99360 is a high-performance macro-emulsion silicone softener designed to deliver exceptional smoothness and luxuriously soft feeling to various of fabrics. It offers consistent hydrophilicity to most types of textile fiber or fabrics.

FEATURES & BENEFITS

- Provides fast and consistent water absorption on various fabric.
- Large particle size enhances softness and smoothness compared with conventional hydrophilic softeners.
- Achieves target performance at lower dosage levels compared to micro-emulsion softener.
- Water-dispersible macro-emulsion allows direct dilution without auxiliary emulsifiers.
- Resistant to oil-spotting under standard finishing conditions.
- Exhibits strong affinity to all fiber types, with exceptional exhaustibility on natural fibers.
- Maintains softness through multiple laundering.
- Excellent fiber elasticity and shape recovery.
- Minimizes fabrics yellowing and dye redeposition, ensuring consistent hue retention.
- Re-dyeable and over-dyeable.
- No APEO

PHYSICAL PROPERTIES

Color & Appearance	Milky white emulsion
Solid Contents (wt%)	~32.0
D4	Max. 1000 ppm
D5	Max. 1000 ppm
D6	Max. 1000 ppm
Viscosity (25°C, cP)	Max. 300
PH (25°C)	5.0-7.0
Flash Point	Min. 100°C
Diluents	Water
Gravity (25°C)	0.993
Ionicity	Nonionic

APPLICATIONS

POWSIL™-99360 is readily diluted in water. No additional emulsifying is

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required, and can be directly applied in textile finish process.

POWSIL™-99360 can be used as received or pre-diluted with water before applying. The Optimum usages are dependent on the required softness of the fabric and yarn after dyeing and rinsing.

APPLICATION GUIDE

The recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Padding Process

Dosage:	10~20g/l for light fabric
	25-50g/l for heavy fabric
pH:	5.0 ~ 7.0
Temp.:	Ambient temperature
Dry/Cure:	120 ~ 170°C for 1~3 min

Exhaustion Process

Dosage:	1.0~2.0% (o.w.f.) on light fabric
	2.5-5.0% on heavy fabric
Liquor ratio:	1/10 ~ 1/20
pH:	5.0 ~ 7.0
Temperature:	Ambient
Time:	10-30 min
Drying:	100 ~ 170°C for 1~3 min

Garment Washing

Dosage:	1.0-3.0% on the weight of garment
Temp.:	Ambient temperature
Time:	30 ~ 60 min
Drying:	100-130°C for 3-5 min

Stripping

POWSIL™-99360 can be stripped off fabric. The stripping formulation is as follows:

NaOH:	5g/L
LABS (30%):	2-5%

Add water and NaOH onto fabric tank and then heat to 100 °C for 60 min. Then rinse fabric with acidic water and water.

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PACKING

POWSIL™-99360 is available in 120Kg drum or 1000Kg IBC tote.

STORAGE

In the unopened original container POWSIL™-99360 has a shelf life of 9 months 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 technological progress or further developments. Performance of the product described herein should be verified by testing.

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