

# POWSIL™-59360

## Hydrophilic Silicone Softener

### INTRODUCTION

POWSIL-59360 is a milky emulsion with big particle sizes & imparts a super slick & soft feeling to various fabrics. It contains a revolutionary silicone molecule that is able to deliver consistent hydrophilicity to most types of textile fiber or fabric and be used in smaller amounts than other silicone microemulsion softeners. It is very stable in ordinary textile finish process without causing the formation of oil-spots on fabric.

### BENEFITS

- Outstandingly exhaustible to particularly natural fibers;
- Comes in big particle size that imparts better soft & smooth feeling than traditional hydrophilic silicone softeners;
- Amount used is lesser compared to micro emulsion;
- Water dispersible macro-emulsion;
- Readily diluted to any degree without additional emulsifies;
- Very stable & prevents the formation of oil-spots if used under normal textile finishing conditions;
- Excellent affinity to all types of textile;
- Excellent fiber elasticity and shape recovery;
- Durable softness to laundering;
- Less fabric yellowing;
- Little or no color re-deposition;
- Provides fast & consistent water absorption on various fabric;
- Redyeable & over dyeable.

### TYPICAL PHYSICAL PROPERTIES

Property	Value
Physical Form	Liquid state
Appearance	Milky white
Solid Contents (wt%)	30.0-32.0
PH(25°C)	4.0-6.0
Flash Point (°C)	>100
Diluents	Water & Alcohol
Gravity ( 25°C)	0.96-1.06
Ionic	Nonionic

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### APPLICATION

POWSIL-59360 can be readily diluted in water. No additional emulsifying is required to directly apply it in textile finish process.

POWSIL-59360 can be used as received or pre-diluted with water before applying. Optimum treatments are dependent on the required softness of the fabric and yarn after dyeing and rinsing.

#### 1. Pad-dry-cure process

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

#### 2. 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
Temp.:	Ambient temperature
Time:	15-30 min
Spinning & Drying:	100-170 °C for 1-3 min

#### 3. Garment washing process

Dosage:	1.0-3.0% (o.w.f.)
Temp.:	Ambient temperature
Time:	15-30 min
Spinning & Drying:	100-170 °C for 1-3 min

#### Stripping:

POWSIL-59360 can be stripped off fabric. The stripping formulation is as follows:

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

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

### PACKING AND STORAGE

To ensure that the product quality is maintained, the container should be tightly sealed when not in use. It should be stored at normal room temperature, preventing prolonged exposure to extreme heat and cold conditions, which may cause product separation. POWSIL-59360 tends to be sediment on bottom during storage period. If the product is separated, stir the contents to homogeneous. If the product is frozen, thaw it at warm condition and stir after thawed.

POWSIL-59360 is packaged in net weight 120Kg plastic drum.

### NOTES

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.

Please send all technical questions concerning quality and product safety to: [support@SiSiB.com](mailto:support@SiSiB.com).