

# POWSIL™-99800

## High Concentrate Silicone Softener

### INTRODUCTION

POWSIL-99800 is a super soft and slick textile softener concentrate, a micro-emulsion of amino-modified silicone polymer. It is widely applicable to all fabric types, providing durable elasticity, softness, lubricity, sew-ability, smoothness, and a shiny finish.

### BENEFITS

- Stable micro-emulsion concentrate;
- Dilute with water and mild stirring to any lower grades. No acid and emulsifiers are needed. The dilution would get a clear and stable clear micro-emulsion;
- Imparts good affinity to various fabrics;
- Imparts remarkable slickness and softness to various fabrics;
- Imparts rebound or elastomeric property to various fabrics;
- Imparts low-yellowing to various fabrics;
- Provides the competitive cost-performance ratio.

### TYPICAL PHYSICAL PROPERTIES

Property	Value
Physical Form	Liquid
Appearance	Transparent with bluish
Solid Contents (wt%)	47.0~50.0
Viscosity (25°C,cps)	<3500 cst
pH (25°C)	4.0~6.0
Flash Point (°C)	>90
Diluents	Water
Ionic	Nonionic to Slightly cationic

### APPLICATION

POWSIL-99800 can be diluted with water and mild stirring to any lower grades. No additional emulsifier or acid is required.

Micro-emulsion for 30.0% of POWSIL-99800

1. Formulation:

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POWSIL-99800:	30%
Water:	70%

### 2. Dilution Procedures:

- 1) Charge water into a tank;
- 2) Add POWSIL-99800 into the tank;
- 3) Start to stir with a mixer or a hand-stick. Continue to stir until all POWSIL-99800 is well dispersed.
- 4) Stop stirring and stand for a while. A clear micro-emulsion is formed.

POWSIL-99800 can be used as received or pre-diluted with water before applying. The desirable usages are dependent on the required softness of the fabric and yarn after dyeing and rinsing.

### 1. Pad-dry-cure process

Dosage:	5-10g/l for light fabric or 10-20g/l for heavy fabric
pH:	5.0-7.0
Temp.:	Ambient temperature
Dry/Cure:	120-170°C for 1-3 min

### 2. Exhaustion process

Dosage:	0.5-1.0% (o. w.f.) on light fabric & 1.0-2.0% on heavy fabric
Liquor ratio:	1/10 -1/20
pH:	5.0-7.0
Temp.:	Ambient temperature
Time:	10-30 min
Spinning & Drying:	100-170°C for 1-3 min

### 3. Garment washing process

Dosage:	0.5-1.0% on the weight of garment
Temp.:	Ambient temperature
Time:	30-60 min
Spinning & Drying:	100-130°C for 3-5 min

## PACKING AND STORAGE

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## *High Concentrate Silicone Softener*

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-99800 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-99800 is packaged in net weight 50Kg or 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.

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