

POWSIL™-99780 Silicone Macro-Emulsion Softener

INTRODUCTION

POWSIL™-99780 is a high-performance amino-modified silicone softener supplied as a stable macro-emulsion. It provides fabrics with a rich, smooth, and slightly greasy hand feel combined with elasticity, lubricity, and a bright appearance. The product can be diluted freely with water and shows excellent compatibility in textile finishing processes.

BENEFITS / EFFECTS

- Provides outstanding slickness, smoothness, and soft-soapy touch.
- Imparts durable elasticity and lubricity to treated fabrics.
- Stable macroemulsion that can be easily diluted with water.
- Minimal yellowing tendency after heat treatment.
- Non-APEO formulation; cyclic siloxanes (D4, D5, D6) < 1000 ppm.

PHYSICAL PROPERTIES

Appearance	Amber to milky white liquid
pH (1% solution)	4.0-6.0
Solid Content (%)	40
Density (25°C, g/cm ³)	0.993
Ionicity	Nonionic to slightly cationic
Flash point (°C)	Min.100
D4 (ppm)	Max.1000
D5 (ppm)	Max.1000
D6 (ppm)	Max.1000

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

APPLICATIONS

POWSIL™-99780 is designed for textile softening, providing fabrics with a soft, smooth, and elastic hand feel. It can be applied to cotton, polyester, blends, wool, viscose, and denim fabrics.

POWSIL™-99780 can be readily diluted in water and requires no additional emulsifier. It can be used as received or pre-diluted before application and is directly applicable in various textile finishing processes.

USAGE GUIDELINES

Padding Process

Dosage:	10 - 40 g/L
pH:	5.0 - 7.0
Dry/Cure:	120 - 170°C for 1 - 3 min

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Exhaustion Process

Dosage:	1.0 - 4.0% (o.w.f.)
pH:	5.0 - 7.0
Liquor ratio:	1/10 - 1/20
Temperature:	Ambient
Time:	10 - 30 min
Drying:	100 - 170°C for 1 - 3 min

Garment Washing

Dosage:	1.0 - 2.0% (o.w.f.)
Time:	30 - 60 min
Drying:	Tumble dryer as usual

PACKING

POWSIL™-99780 is packaged in net weight 50Kg and 120Kg plastic drum.

STORAGE

POWSIL™-99780 has a shelf life of 9 months when stored in its unopened original container at below 40°C in a dry and cool place. While storage beyond the recommended shelf life does not necessarily render the product unusable, it is important to check the product's properties for the intended use to ensure quality and performance, especially for quality assurance purposes.

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.

We specifically disclaim any other express or implied warranty of fitness for a particular purpose or merchantability.

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We disclaim liability for any incidental or consequential damages.