

## POWSIL™-59881 PU Modified Silicone Softener

### INTRODUCTION

POWSIL™-59881 is an innovation silicone softener based on a PU-modified silicone polymer with reactive groups. It is designed to deliver high-level elastomeric, slick, and bouncy hand feel through a self-crosslinkable mechanism. Upon curing at elevated temperature, the product forms an elastomeric film on fibers without the need for additional catalysts, providing durable softness and resilience.

### FEATURES & BENEFITS

- PU-modified, self-crosslinkable silicone
- Forms a durable elastomeric film at >150°C, no catalyst needed
- Delivers long-lasting smoothness and soft, bulky handle
- Improves stretch recovery, anti-pilling performance, and DP rating
- Excellent affinity to various textile substrates
- Durable softness after laundering
- NP/OP free, environmentally friendly

### PHYSICAL PROPERTIES

Appearance	Transparent liquid
Color	Colorless to yellowish
Solid Content (105°C, 3h, %)	69-72
Viscosity (25°C, cP)	Max.8000
D4 Content (ppm)	Max.1000
D5 Content (ppm)	Max.1500
D6 Content (ppm)	Max.1500

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

### APPLICATIONS

POWSIL™-59881 is supplied as an oil-type polymer and is not ready for direct use. It must be emulsified prior to application. A 30% emulsion of POWSIL™-59881 is suitable for finishing a wide range of fabrics to improve smoothness, bouncy hand feel, elongation, and stretch recovery. It can also be used for fiber and yarn lubrication, as well as for hand-feel finishing of PU leather.

### APPLICATION GUIDE

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

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Padding Process

30% Emulsion:	10 - 50g/l
pH:	6.0 - 8.0
Pick-up:	65 - 100%
Dry/Cure	Min. 150°C for 1-3 min

Exhaustion Process

30% Emulsion:	1.0 - 5.0% (o.w.f.)
pH:	6.0 - 8.0
Liquor ratio:	1/10 - 1/20
Exhaust:	20 - 40°C for 15-30 min
Drying:	150 - 180°C for 1-3 min

**PACKING**

POWSIL™-59881 is available in 50Kg and 120Kg drum.

**STORAGE**

In the unopened original container POWSIL™-59881 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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