

POWSIL™-99122 Hydrophilic Silicone Softener

INTRODUCTION

POWSIL™ 99122 is a hydrophilic linear copolymer silicone softener developed for textile finishing. It delivers a soft, full and silky handle while maintaining excellent absorbency.

Its unique silicone structure combines surface lubrication with effective fiber penetration, resulting in enhanced softness, bulk and resilience. The product offers excellent process stability and can be used in heat-setting equipment and dyeing machines. It is also suitable for use in combination with durable press finishing systems.

FEATURES & BENEFITS

- Soft, full and silky handle
- Excellent absorbency
- Long-lasting softness
- Good fiber penetration
- Enhanced elasticity and shape recovery
- Excellent exhaustibility, particularly on natural fibers
- Outstanding process stability
- Excellent shear and pH stability
- Compatible with most textile auxiliaries
- Low yellowing tendency
- Suitable for white and pastel shades
- Re-dyeable and over-dyeable

PHYSICAL PROPERTIES

Appearance	Clear liquid
Color	Colorless to pale yellow
D4, D5, D6 Content (wt%)	Max. 0.1 each
Viscosity (25°C, cSt)	Max. 200
Flash Point (°C)	Min. 100
pH (25°C)	4.0-6.0
Ionicity	Weak cationic
Diluents	Water

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

APPLICATIONS

POWSIL™ 99122 is suitable for cotton, rayon, wool and their blends, as well

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as yarns, towels and garments. It imparts a soft, full and silky handle while maintaining excellent absorbency and wash durability.

APPLICATION GUIDE

POWSIL™ 99122 may be applied directly or diluted with water prior to use. Application levels should be adjusted according to fabric type and the desired handle.

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

☐ Pad-dry-cure Process

Dosage:	10-20g/l for light fabric
	20- 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:	1.0-5.0% on the weight of fabric
Liquor ratio:	1/10 - 1/20
pH:	5.0 - 7.0
Temperature:	Ambient temperature
Time:	20 - 30 min
Drying:	100 - 130°C for 3-5 min

☐ Guides of Stripping

POWSIL™ 99122 can be removed from treated fabrics using an alkaline stripping process.

Recommended formulation:

- Sodium Hydroxide: 5 g/L
- Sodium Linear Alkylbenzene Sulfonate 30%: 2-5%

Treat the fabric at 100°C for 60 minutes, followed by rinsing with acidic water and then clean water.

PACKING

POWSIL™-99122 is available in 120Kg plastic drum.

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STORAGE

POWSIL™ 99122 should be stored in the original unopened containers and protected from direct sunlight. The shelf life is 12 months from the date of manufacture.

Avoid prolonged exposure to temperatures below -10°C or above 60°C, as this may affect product stability and result in separation.

If separation occurs, stir the product until uniform before use. If necessary, add 2-5% of a 20% aqueous acetic acid solution and mix for approximately 30 minutes until homogeneous. If the product has been frozen, allow it to thaw completely and mix well before use.

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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