

POWSIL™-99223

Hydrophilic Silicone Softener

INTRODUCTION

POWSIL™-99223 is a super soft, bulky and fast hydrophilic textile softener which contains revolutionary silicone molecules to deliver voluminous and silky hand feeling to textile fabric.

POWSIL™-99223 provides hydrophilicity to most types of textile fiber or fabric. It is very stable in ordinary textile finish process without oil-spots on fabric.

BENEFITS

- Fast water absorption on various fabric, especially suitable for cotton knit and terry towel;
- Can be used in cheese dyeing as a lubricant without causing differences of color and hand feel inside and outside spindles;
- Provides soft, bulky and smooth hand feel;
- Excellent affinity with all types of textile;
- Excellent fiber elasticity and shape recovery;
- Excellent exhaustibility to special natural fibers;
- Less fabric yellowing;
- Redyeable & over dyeable;
- Easy to be diluted to any grades without additional emulsifiers;
- Very stable & non-oil-spots if used in ordinary textile finish process.

TYPICAL PHYSICAL PROPERTIES

Appearance	Yellowish transparent liquid
Solid Contents (wt%)	55.0~58.0
pH (25°C)	4.0~6.0
Flash Point (°C)	>90
Diluents	Water
Ionic	Slightly cationic

APPLICATION

POWSIL™-99223 can be readily diluted with water into any grades. No additional emulsifying process is required.

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1. Formulation:

POWSIL™-99223:	30%
Water-1:	30%
Water-2:	40%

2. Dilution Procedures:

- 1) Charge water-1 (initial water, usually amount of initial water is same as POWSIL™-99223 calculated) into a tank;
- 2) Add POWSIL™-99223;
- 3) After addition, start to stir for 10-20 min until the content become homogenous;
- 4) Then add water-2 (rest water) at moderate speed under stirring;
- 5) After all additions, continue to stir for 10-15 min;
- 6) A clear to translucent micro-emulsion will be obtained.

POWSIL™-99223 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.

1. Pad-dry-cure process

Dosage:	10-20g/l for light fabric or 25-50g/l for heavy fabric, typically about 32g/l terry towel
pH:	5.0-7.0
Temp.:	Ambient temperature
Dry/Cure:	120-170°C for 1-3 min

2. Exhaustion process

Dosage:	1.0-2.0% (o.w.f.) on light fabric & 2.5-5.0% on heavy fabric like terry towel
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:	1.0-3.0% on the weight of garment
Temp.:	Ambient temperature

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Time:	30-60 min
Spinning & Drying:	100-170°C for 1-3 min

4. Cheese dyeing process

Dosage:	0.4-0.6% of POWSIL™-99223 based on the weight of total spindles
Temperature:	25-40°C
Duration time:	20-40 min

Guides of Stripping:

POWSIL™-99223 can be stripped off fabric. The stripping formulation is as following:

NaOH:	5g/l
LABS(30%, sodium linear alkyl-benzene sulfonate):	2-5%

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™-99223 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™-99223 is packaged in net weight 120Kg plastic drum or 1000Kg IBC tote.

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.

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