

POWSIL™-99229

Hydrophilic Silicone Softener

INTRODUCTION

POWSIL™-99229 is soft and fast hydrophilic textile softener concentrate. It provides softness and a silky hand feel to various fabrics.

POWSIL™-99229 is hydrophilic and stable during textile finishing processes, no oil spots on fabrics. It can impart consistent hydrophilicity to most types of textile fiber or fabric.

BENEFITS

- Very soft hydrophilic softener;
- High concentrate, and ready to use
- Very stable in regular textile finishing processes;
- Compatible with wrinkle-free systems and adhesives in the same bath;
- Penetrates deeply into fibers to provide internal softness;
- Silky softness, without a greasy feel;
- Excellent affinity for various textiles;
- Outstanding fiber elasticity and shape recovery;
- Durable softness after washing;
- Minimal fabric yellowing;
- Suitable for re-dyeable and over dyeable.

TYPICAL PHYSICAL PROPERTIES

Appearance	Yellowish transparent liquid
Solid content (wt%)	55.0~58.0
pH (25°C)	4.0~6.0
Flash Point (°C)	>90
Diluents	Water
Ionic	Weak cationic
D4	<1000ppm
D5	<1000ppm
D6	<1000ppm

APPLICATION

POWSIL™-99229 can be readily diluted with water into any grades. No additional

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emulsifying process is required.

1. Formulation:

POWSIL™-99229:	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™-99229 calculated) into a tank;
- 2) Add POWSIL™-99229 ;
- 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™-99229 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
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Temp.:	Ambient temperature
Time:	30-60 min
Spinning & Drying:	100-170°C for 1-3 min

4. Cheese dyeing process

Dosage:	0.4-0.6% of POWSIL™-99229 based on the weight of total spindles
Temperature:	25-40°C
Duration time:	20-40 min

Guides of Striping:

POWSIL™-99229 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™-99229 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™-99229 is packaged in net weight 120Kg 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.

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Please send all technical questions concerning quality and product safety to:
support@SiSiB.com.