POWSIL™-59720

Silicone Softener

Introduction

POWSIL™-59720 is designed for providing high smoothness, greasy or oily feeling/moisturizing and softness to various fibers and fabrics, especially suitable for synthetic fibers and fabrics. It provides high cost performance.

Benefits

- ☐ Silicone copolymer structure;
- ☐ Self-dispersing, easily dilutes to any grade without the addition of emulsifiers;
- ☐ Provides high levels of natural smoothness and oiliness to synthetic fibers and their blends with natural fibers;
- ☐ Provides excellent hand feel to cotton and its blends;
- ☐ High molecular weight polymer, providing similar properties to amino silicone macro-emulsions;
- ☐ Hindered amine functional groups. Thus, it has virtually no yellowing;
- ☐ Excellent stability under most finishing conditions (including jetting/flooding);
- ☐ Re-dyeable and over-dyeable.

Typical Physical Properties

Appearance	Yellowish transparent liquid
Viscosity (25°C, cP)	Max.500
pH (25°C)	4.0~6.0
Solid Contents (wt%)	33.0~37.0
Diluents	Water
Ionic	Weak cationic
Specific Gravity (25°C)	0.964
D4	<1000ppm
D5	<1000ppm
D6	<1000ppm

Application

POWSIL™-59720 can be used as received or pre-diluted with water before applying.

Optimum usages are dependent on the required softness of the different types of fabric and Yarn.

1. Pad-dry-cure process

Dosage:	2-10g/l for light fabric or 10-20g/l for heavy fabric
pH:	5.0-7.0
Temp.:	Ambient temperature
Dry/Cure:	120-170°C for 1-3 min

2. Exhaustion process

Dosage:	0.2-1.0% (o.w.f.) on light fabric & 1.0-2.0% on heavy fabric
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
Time:	30-60 min
Spinning & Drying:	100-130°C for 3-5 min

Guides of Striping:

POWSIL™-59720 can be stripped off fabric. The stripping formulation is as following:

Na_2CO_3:	5g/l
LABS (30%):	2-5%

Add water and Na_2CO_3 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™-59720 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.

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POWSIL™-59720 is packaged in net weight 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: silanes@SiSiB.com.

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