

POWSIL™- 54101

Stable Cool Touch Softener

INTRODUCTION

POWSIL-54101 is specially designed to provide cool touch feel and soft & silky touch to various fabric. It contains revolutionary & new generation of silicone molecules that deliver a soft, voluminous and silky hand feel to various fabrics. In addition, it provides hydrophilic property to most types of textile fabrics. It is very stable in textile finish process without causing oil-spots on fabric. And it is also comparable with other finishing agents, specially can be applied in same bath with wrinkle free finishing system and binders.

BENEFITS

- Imparts instant cool feeling (Touch feeling of Coolness/Qmax: $Q_{max} > 0.15$ J/(cm²·s);
- Imparts hydrophilic to help heat transfer;
- Impart natural hand silky & bulky feel;
- Imparts soft, bulky and silky softener;
- Very stable and compatible in ordinary textile finish process;
- Can be applied in same bath with wrinkle-free finishing system and binders;
- Excellent affinity to all types of textiles;
- Excellent fiber elasticity and shape recovery;
- Durable softness to laundering;
- Less fabric yellowing;
- Little or no color re-deposition;
- Outstandingly exhaustible to particularly natural fibers;
- Redyeable & over dyeable.

TYPICAL PHYSICAL PROPERTIES

Property	Value
Appearance	Colorless to light yellowish, transparent and viscous liquid
Viscosity (25°C, mPa·s)	<2500
pH (25°C, as 10% solution)	4.0-6.0
Flash point (°C, closed Cup)	>93
Density (25°C, g/m ³)	1.02

APPLICATION

SINOPCC GROUP

AddSil, CoatSil, Kolark, PowSil, SinoSil, SiSiB, WinSil:
Trademark of SINOPCC Group Limited or its affiliated.
© 2018 SINOPCC Group Limited. All rights reserved.
For further information, please see www.SiSiB.com.

POWSIL™- 54101

Stable Cool Touch Softener

POWSIL-54101 can be used as received or pre-diluted with water before applying. The optimum treatments such as dosages, are dependent on the required softness of the fabric and yarn after dyeing and finishing.

POWSIL-54101 can be diluted to any grades with water. To achieve the desired product of dilution, it is advised to first mix POWSIL-54101 and water in 1:1 ratio and then start to stir. Thereafter, add the rest of water required to achieve the final dilution and continue to stir. A clear microemulsion should be obtained.

1. Pad-dry-cure process

Dosage:	50-100g/L for light fabric or 10-20 g/L for heavy fabric
PH:	5.0-7.0
Temp.:	Ambient temperature
Dry/Cure:	120-170 °C for 1-3min

2. Exhaustion process

Dosage:	5.0-10.0% on the weight of fabric
Liquor ratio:	1/10-1/20
PH:	5.0-7.0
Temp.:	Ambient temperature
Time:	20-30 min
Spinning & Drying:	100-130 °C for 3-5 min

3. Garment washing process

Dosage:	5.0-10.0% on the weight of garment
Temp.:	Ambient temperature
Time:	20-30 min
Spinning & Drying:	100-130 °C for 3-5 min

Stripping:

POWSIL-54101 can be stripped off fabric. The stripping formulation is as follows:

NaOH:	5g/L
LABS (30%):	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

POWSIL™- 54101

Stable Cool Touch Softener

To ensure the product quality is maintained, the product should not be exposed to too hot or too cold condition. The product is sensitive to temperature below -10°C and above 60°C. When it is separated, stir the contents. or add 2-5% of 20% acetic acid aqueous solution and stir for 30 min. If the product is frozen, thaw it at warm condition and stir after thawed. The container should be tightly sealed when not in use.

In the unopened original container POWSIL-54101 has a shelf life of 12 months in a dry and cool place.

POWSIL-54101 is packaged in net weight 120Kg plastic drum or 1000Kg IBC.

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.