

POWSIL™-51101

Deepening Agent

INTRODUCTION

POWSIL™-51101 is a particular high molecule silicone emulsion for textile. It can deepen the color of fabrics, especially for dark fabrics.

BENEFITS

- Improves the color depth by 20-30% for reactive dyes and acid dyes.
- Can be used with super deepening agent POWSIL™-51200 together to achieve disperse dyes of Arabian Black.
- Imparts good soft feeling to fabrics.
- Excellent compatibility with cationic and nonionic softeners.

TYPICAL PHYSICAL PROPERTIES

Appearance	Milky white liquid
pH (1% aqueous solution)	4.0-6.0
Solid Contents (%)	24.0-26.0
Ionic Character	Cationic/Nonionic
Solubility (10%aqueous solution)	Soluble in water

APPLICATION

POWSIL™-51101 can be used for polyester, nylon, cotton, blends and printing fabrics.

1. Pad-dry-cure process

Dosage:	10~40g/L (the original emulsion)
Residual water proportion:	65 ~ 85%
Drying:	160 °C for 1-2min

2. Exhaustion process

Dosage:	1.0-4.0% (o.w.f)
Liquor ratio:	1/10-1/20
Temp.:	Ambient temperature
Time:	15-30 min
Drying:	160 °C for 1-2 min

3. For Arabian Black polyester and flax yarn process

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One dipping and one padding process (30g/L POWSIL™-51101)→Drying(160°C)→
One dipping and one padding process (40g/L POWSIL™-51101)→Drying(160°C).

Note: Detailed process should be adjusted according to preliminary tests.

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™-51101 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.

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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