POWSIL™-58160

Elastomeric Silicone Softener

INTRODUCTION

POWSIL-58160 is specially designed to provide elastomeric & slick property through a self-cross-linkable silicone emulsion consisting of a unique multi-functional silicone polymer. It can be cured into an elastomeric film without the need of a catalyst.

POWSIL-58160 is environmentally friendly because its APEO-free composition does not contain any alkylphenol based chemicals in the compositions.

BENEFITS

| Forms an elastomeric film as soon as the water evaporates, no catalyst is needed; |
|---|
| Outstandingly durable smoothness along with soft & slick hand-feel; |
| Provides stretch-recovery and bouncy hand feel to all type of fabrics; |
| Improve wet and dry rubbing fastness on fabrics; |
| Minimizes wrinkle on fabrics; |
| Excellent affinity with all types of textile; |
| Durable softness to laundering; |
| NP/OP free - Environmental friendly; |
| Readily diluted to any grade without additional emulsifies. |

TYPICAL PHYSICAL PROPERTIES

| Appearance | Milky White Liquid |
|------------------------|--------------------|
| Solid Contents (wt%) | 30.0~33.0 |
| Viscosity (25°C, cps) | <50 |
| Specific gravity(25°C) | 0.993 |
| Ionic | Weak cationic |
| Diluents | Water |

APPLICATIONS

| Any type of fabrics requiring excellent smoothness and bouncy hand-feel; |
|--|
| Any type of fabric requiring improvement of elongation and stretch recovery; |
| Mercerized cotton knits; |
| Wool / wool blended knits and worsted wool woven; |
| Fiber and thread lubricants; |

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™-58160

Elastomeric Silicone Softener

| Improves softness in wrinkle free finish; |
|---|
| Hand-feel agent for PU leathers |

POWSIL-58160 is ready-to-use, thus it can be applied when received. However because of its high solid content, it can be pre-diluted prior to adding to the textile finish bath.

The optimum dosage depends on the required softness, type of fabrics and fabric finish conditions, but following conditions are commonly recommended.

1. Pad-dry-cure process

Dosage: $10 \sim 30 \text{ g/l}$ pH: $6.0 \sim 8.0$ Temperature: ambient Pick-up: $65 \sim 100 \%$ Drying & Curing: $100 \sim 160 \%$ Drying time: 3 min

2. Exhaustion process

Dosage: 1.0 ~ 3.0 % (OWF)

Liquor Ratio: $1/10 \sim 1/20$ pH: $6.0 \sim 8.0$ Temperature: $20 \sim 40$ °C Time: $15 \sim 30$ min Drying: $100 \sim 120$ °C

Upon evaporation on fabric that POWSIL-58160 is applied, the product will cure to an elastomeric film.

POWSIL-58160 silicone emulsion is generally stable in hard water. However, if the water hardness is 200 ppm or higher, it is recommended to use softened or purified water as a diluent.

POWSIL-58160 contains a bactericide, it may be necessary to add a bacteriostat/fungal agent after dilution with water to eliminate possible microbial activity.

POWSIL-58160 is a reactive silicone emulsion and may be incompatible with some materials. It may be inactivated by acidic materials and may cause materials containing hydroxyl (-OH) groups to gel. Other materials, such as anions, lower alcohols, salt, yeast, etc., may damage the silicone emulsion. Test is necessary before mixing reactive

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™-58160

Elastomeric Silicone Softener

emulsions with other materials.

PACKING AND STORAGE

POWSIL™ 58160 is supplied 120Kg barrel. In the original unopened packaging, it has a shelf life of 12 months. Separation or turbidity may occur, warm and mix well.

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.

January 2024 | Technical Data Sheet | Edition JW

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



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.