



# SILIT-PUR5998 FOR BLUE DEMIN

## TECHNICAL DATA SHEET

### Introduction

Wet fastness enhancer **SILIT-PUR5998** is a water-soluble polyurethane cationic polymer suitable for dyeing or printing cotton and its blended fabrics, especial for blue demin. The color fastness to rubbing after flowers can significantly improve the color fastness of the fabric to dry and wet rubbing.

### Properties

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|--------------|--|
| ➤ Appearance | Light yellow to yellow liquid              |
| ➤ pH value   | 6.2 ~ 6.8(1.0% deionized aqueous solution) |
| ➤ Ionic      | Cationic                                   |
| ➤ Solubility | Soluble                                    |

### Characteristics

- It can significantly improve the wet fastness of cotton fabrics, T/R and T/C fabrics.
- It does not significantly improve the color fastness to friction of soft brushed knitted fabrics and sweatshirts
- It has little effect on color fastness to soap washing and color fastness to perspiration.
- It has little effect on the color, light and feel of the fabric.
- Excellent wet lifting effect and suitable for wet cloth dipping process.
- The working fluid has a moderate pH and does not damage the weave
- The substance is strong and the smell is small.

### Usage and dosage

#### Dip rolling method

Wet fastness enhancer **SILIT-PUR5998** 10 ~ 30 g/L

One dip and one rolling working liquid, drying

Illustrate:

1. When the appearance of the liquid is slightly turbid, the wet friction lifting effect is the best; If the appearance of the working solution is clear, a small amount of soda ash solution can be added to slightly turbid or with warm water (30 °C ~ 40 °C) to cut.



2.The water hardness, pH value, and conductivity of dyeing plants in different regions are different, please pay attention to the influence of different water quality on the appearance and stability of working fluid.

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## Notes

- 1.Materialization method: **SILIT-PUR5998** in the barrel with tap water 1 to open more than 2, dilute evenly and then pour into the cylinder, and control the stirring speed to avoid a large amount of foam, it is best not to exceed 600 rpm/mim.If a large amount of foam appears when making materials, a large number of foam spots may appear on the fabric after dipping the fabric;
- 2.**SILIT-PUR5998** contains an environmentally friendly solvent, the pH of the original solution may be reduced during storage, resulting in the clarification of the prescribed working solution, the effect is reduced, at this time, 0.1 ~ 0.3 g/L of soda ash can be added to the working solution, so that the working solution presents a slightly turbid state;
- 3.The product is cationic, avoid contact with anionic items, and some non-ionic products may also cause it to be cloudy or even precipitate;
- 4.When **SILIT-PUR5998** is used in the same bath with other finishing agents, the compatibility test of the sample should be done in advance;
- 5.**SILIT-PUR5998** has a certain selectivity for active fixatives, silicone oils and soft tablets when used in the same bath with active fixing agents, silicone oils or soft tablets;
- 6.During the storage of the product, the appearance color of the stock solution will gradually become darker (from light yellow to yellow-brown, and then gradually change brown, and the higher the ambient temperature, the faster the discoloration), the viscosity of the stock solution will become slightly larger, these changes belong to the characteristics of the product, do not affect its application performance;
- 7.Special color should be appropriately increased to meet customer requirements;
- 8.The drums should be kept sealed during storage to prevent water or other foreign matter from mixing in.



### Product stability

- 1.Heat/freeze resistance stability of stock solution and dilute solution: -5~50 °C stable
- 2.Dilution concentration range and product stability after dilution: can be diluted, dilute concentration is less than 10%, long-term placement will be unstable, can not be stored for a long time after dilution, it is recommended to use it now.

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### Rework method

If oily stains have developed in high-volume production applications, they can be repaired in the following ways (in an overflow or dyer):

Degreaser 1 ~ 5 g/L

Glacial acetic acid 5 g/L

Bath ratio 1:10, 30 ~ 40 °C treatment for 20 ~ 30 min and then water wash for 10 min.

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### Package

25 kg plastic drum.

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### Storage and shelf-life

When stored in the original unopened packaging at a temperature of between +2°C and +40°C, **SILIT-PUR5998** can be used for up to 12 months after the date of manufacture marked on the packaging (DLU). Comply with storage instructions and the expiry date marked on the packaging. Past this date, SHANGHAIVANA BIOTECH no longer guarantees that the product meets the sales specifications.

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