

Velvetol 251C is a multifunctional polyester polymer. It imparts a hydrophilic soft hand finish to polyester fabrics that reduces static charge generation on fabric and garments.

For further information regarding this product please refer to:

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Property	Typical Value	Unit	Method ¹
Appearance	Off white to tan pastilles		
Activity	97	%	
Ionic Nature	Nonionic		
pH (5%)	6.0		DIN ISO 976
Solubility	Completely dispersible at 80 – 85C		
Flash Point	>93	C	

¹ internal method based upon the specified norm

FEATURES

- Imparts good soil release properties.
- Allows moisture transportation creating a cotton like finish.
- Imparts anti static properties to polyester fabric.
- Excellent dye bath lubricant for jet dyeing of polyester fabric.
- Good oil scavenger in preparation and scouring.
- Soft finish creates good drape in fabric.
- Reduces fabric friction during dyeing eliminating crease marks.
- Improves exhaustion rate thus reducing effluent discharge.
- Fabrics finished display a silicone like finish

DILUTION PROCEDURE

It is recommended that the product is dispersed in water up to a maximum of 25% concentration but 10-15% dispersions show better stability. Above 25% concentration viscosity is too high to form a uniform dispersion. In order to make a stable dispersion high shear mixer (3,000 RPM) is required. The following steps are recommended:

DIRECT DISSOLVING METHOD

1. Weigh the required quantity of Velvetol 251-CCG and water (room temp.)
2. Start the agitator of mixing tank, speed > 300 RPM
3. Adjust pH value to 5.0 – 6.0 by adding 0.2 % Acetic Acid in mixing tank.
4. Raise temp. up to 50 °C, final temp. not more than 70 °C. Recommend 60 - 70 °C.
5. Add Velvetol 251-CCG slowly into mixing tank preparing concentration about 10 – 15%.
6. Dissolving needs about 8 hours, sometimes more than 12 hours. Please continuously agitate until complete dissolving.
7. Addition of wetting and penetrating agents helps product stability and effectiveness
8. Product should be filtered before packing.

HOT MELT DISSOLVING METHOD

1. Weigh the required quantity of Velvetol 251-CCG and water (room temp.)
2. Start the agitator of mixing tank, speed > 300 RPM
3. Adjust pH value to 5.0 – 6.0 by adding 0.2 % Acetic Acid in mixing tank.
4. Raise temp. up to 50 °C and not higher. Recommend final working temp. 60 - 70 °C.
5. Apply hot steam making Velvetol 251-CCG until it melts completely.
6. Transfer molten Velvetol 251-CCG into mixing tank (water temp. 50 °C).
7. Dissolving needs about 2 - 3 hours, sometimes more than 8 hours. Please continuously agitate until complete dissolving.
8. Please refer to No. 7 of direct method. Control the concentration of Velvetol 251-CCG about 10 – 15%.
9. Filter before packing.

APPLICATION OF DISPERSION

Dispersions made from Velvetol 251 CCG are versatile in their application on polyester substrate via exhaust and pad thermosol process. They can be applied at the following concentrations:

Dye Leveler 2.0 – 4.0% OWF 0.2 – 0.4 % V-251 CCG

Fabric Finishing 1.0 – 3.0% OWB 0.1 – 0.3 % V-251 CCG

FOLLOWING CONDITIONS TO AVOID

- Combinations with cationics.
- Drying temperature of > 150C.
- Bath pH of > 8.0 .
- Adding Velvetol 251 CCG dispersion to tank with electrolytes already present.

ABSORBENT PROPERTIES AND STATIC REDUCTION

Velvetol 251 CCG creates hydrophilic properties in polyester fabric together with moisture transportation thus creating a more cotton like finish on this synthetic material. It also reduces static generation on fabrics/garments and what is created subsides very quickly even after significant washing.

PACKAGING

25 kgs. bags on pallets.