

DuPont™ Artistri® Ink

Acid Dye Ink

General Usage

Guidelines for Pre-Treatment and Post-Treatment Processing

Ink Type: DuPont™ Artistri® Acid Dye Ink
Fabric Type: Silk, wool

Pre-Treatment Processing Guidelines

Pre-Treatment

The formula for DuPont™ Artistri® A301 acid dye silk/wool pre-treatment solution can be provided by DuPont™ Artistri® customer support through a Knowledge License. An application for a Knowledge License can be obtained through your DuPont™ Artistri® sales representative. Other commercially available pre-treatment formulations can be used with DuPont™ Artistri® Acid dye inks, however, DuPont offers no warranty of performance with third party pre-treatment products. Any user should conduct proper testing before using third pre-treatment products.

Pre-Treatment Application

Pre-treatment is padded onto the fabric at 75-85% wet pick-up and the fabric is dried at less than 100°C (212°F) (until fabric is dry).

Pre-Treated Digital Fabric Storage Conditions

Pre-treated fabric should be kept clean, dry, and below 50% RH prior to printing.

Post-Treatment Processing Guidelines

Recommendation: the digitally printed fabric should be stored at 25°C and less than 50%RH; the fixation should be done in less than 3 days after printing.

Fixation

Digitally printed fabric is steamed in saturated steam at 102°C (216°F), 95-97%RH for 30 minutes.

Wash-Off

1. Fill the machine up to maximum capacity with cold water.
2. Add 2.5 grams per liter (g/l) sodium carbonate (Obtain pH in the range of 10.0-10.5) and 2 grams per liter anionic surfactant (Any anionic surfactant recommended for washing of acid dye prints on polyamide fibers can be used, an example is Sandopur SOM 6.0 from Clariant)
3. Introduce the fabric in the machine and start the overflow rinse and continue to overflow rinse for 10 minutes (as the overflow rinse cycle continues, the concentration of carbonate and anionic surfactant will drop but it is not necessary to adjust the concentration).
4. Drain bath.
5. Fill the machine up with 1:30 fabric/water ratio*, add 2 g/l carbonate and 2 g/l anionic surfactant and run at room temperature for 5 minutes.
6. Drop the bath and rinse.
7. Fill the machine up with 1:30 fabric/water ratio*, add 1.5 g/l carbonate and 2 g/l anionic surfactant and run at 40°C (104°F) for 5 minutes.
8. Drop the bath and rinse.
9. Fill the machine up with 1:30 fabric/water ratio*, add 1 g/l carbonate and 2 g/l anionic surfactant and run at 60°C (140°F) for 5 minutes.
10. Drop the bath and rinse in warm and cold water.

Note: 1:30 fabric to water ratio means that the amount of water should be at least 30 times the weight of the fabric. As an example, a fabric sample weighing 2 pounds requires about 8 gallons of water.

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