

INSTRUCTIONS

PROCION MX (FIBER-REACTIVE DYE)



For 100% Natural Fiber Cotton, Rayon or Linen

TUB DYEING

(Cotton, Line & Rayon)

One pound dry weight (3-6 sp. yards of fabric or 3 T-shirts)

1. Wash fabric to remove any dirt, grease or sizing (we suggest using Synthrapol as a detergent).
2. Fill container (such as a 5 gallon plastic bucket) with 3 gallons of warm (105 degree F) tap water, add salt and dye in proportion (see in the quantities chart). When salt and dye are completely dissolved, add wet fabric and stir for 20 minutes. Stir constantly or at least every 5 minutes.
3. It's important that the dye bath completely cover the fabric. For even, smooth color, the fiber should be able to move freely in the dye bath. However, too much water will dilute the dye and result in lighter color.
4. In a separate container, dissolve the soda ash in one quart of hot tap water. When completely dissolved, add to the dye bath in 3 parts at 5 minute intervals while stirring. Do not pour directly on fabric. Continue stirring every 5 minutes for the next 50 minutes, 30 minutes for pastels.
5. Remove from dye bath. Rinse in cold water. After rinse, wash in machine with Synthrapol and warm water.

SODA ASH PRE-SOAK TIE-DYE METHOD



1. Prewash fabric
2. Wear gloves. Thoroughly dissolve 1 cup soda ash per gallon of water. Soak fabric in the soda ash solution for at least 20 minutes. Then, wring out by hand.



4. In 1 cup of tap water, mix 2 or more tps of dye. Apply the dye to the fabric using a squirt bottle, paint brush or sponge. Apply as many colors as you like.



3. Fold and tie the fabric. Visit Jacquard's website for pattern ideas.



5. Cover fabric with plastic wrap and let stand for 12 to 24 hours in a warm place.

PRINTING OR PAINTING

Fabric can soak in a soda ash solution (see recipe) and allowed to dry. Print or paint thickened dye onto the fabric using the dye thickener paste recipe. Follow the fixing methods (see below).

The traditional method of printing or painting with fiber reactive dye is to add baking saode (sodium Bicarbonate) to thickener paste. This method can be used for screen printing, hand painting, warp painting, airbrush, stamping and all other direct application techniques. It is important to prepare the fiber by washing to remove the sizing (we recommend using Synthrapol for pre-washing).

Procedure

1. Wash, dry and iron the fabric.
2. Prepare dye thickener paste* by adding ½ tsp baking soda per ½ cup thickener paste and divide the activated paste into several containers.
3. Add dye: ½ to 2 tps of dye per ½ cup thickener in the standard range of dye to thickener. Proportion the dye in each container in relation to the amount of thickener paste and desired intensity. The baking soda "activates" the dye reaction. Activated dye paste will remain usable for only 4 hours, then must be replaced with freshly activated dye paste.
4. Print, Paint, stamp or airbrush on fabric.
5. Fix by any of the following methods:

FIXING METHODS:

Batch Method: The Procion MX fiber Reactive dye will react with the fiber as long as they remain damp.

1. While the fabric is still wet, place printed or painted fabric between two large sheets of plastic.
2. Loosely roll the fabric and plastic into a large bundle,
3. Place inside a large trash bag. Close the bag with an air pocket inside. Allow to sit for 12-48 hours for the dye to react.
4. Rinse the fabric in cool water to remove the excess dye.

Steam Method:

See instructions at: <http://www.jacquardproducts.com/procion-mx.html>

WASHING MACHINE DYEING

(Garment Dyeing – Cotton, Linen & Rayon)

Material for 3-5 pounds of fabrics (8-10 T-shirts)

1. Standard washing machine
2. 6-8 cups plain salt (non-iodized)
3. Dye: double the quantities shown on chart at bottom of this page
4. 2 cups soda ash (3 cups for darker shades)
5. 2 tbsps Synthrapol

Procedure

1. Wash fabric to remove any dirt, grease or sizing (we suggest using Synthrapol as a detergent).
2. Fill washing machine to medium load (approx. 6-8 gallons) with hot water. Add salt and dye, and agitate for 5 min. until both are dissolved.
3. Place wet fabric in machine and agitate for 20 minutes.
4. In a separate container dissolve soda ash in 1 quart hot water. Gradually add to dye bath in 3 parts at 5 minutes intervals, being careful not to pour directly onto fabric.
5. Agitate for 50 minutes (30 minutes for pastels).
6. Let machine drain the dye bath and complete the rinsen cycle. To remove any remaining dye, run through a complete wash cycle with warm water and Synthrapol.

DYE THICKENER PASTE

(Mix at least 2 hours before using)

Material & Equipment (This should make about 1 quart)

- Wide mouth quart jar
- Measuring spoons
- 4 tps sodium alginate SH
- 2/3 cup urea
- 1 tsp Calgon
- 1 ½ cups hot water

Procedure

1. Mix the Calgon and urea together in the jar.
2. Add the hot water.
3. Slowly add the sodium alginate, tiring consantly. Stir until dissolved.
4. Add cool water until the mixture is no longer stiff, but is not runny.

DYE, SALT & SODA ASH QUANTITIES

per 3 gallons of water

(For washing machine dyeing, double the dye quantity)

Dye: 2 tbsps

Salt (non-iodized): 2 cups

Soda Ash: ¼ cup

FOR COLORS
 028 Bright Scarlet
 030 Fire Engine Red
 068 Turquoise
 071 Teal
 076 Cobalt Blue
 086 Forest Green
 126 Brown Rose

Dye: 4 tbsps

Salt (non-iodized): 3 cups

Soda Ash: 1/3 cup

FOR COLORS
 078 Navy
 128 Warm Black
 150 Black

Dye: 1 tbsps

Salt (non-iodized): 1 ½ cups

Soda Ash: ¼ cup

FOR ALL OTHER COLORS