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Procion® Fiber Reactive Dye

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Immersion Bath Method for cellulose fibers: cotton, rayon, linen, silk, tencel, hemp

Safety !!!

All dyes and chemicals should be handled with care. Avoid breathing the dye powder. The use of a NIOSH-MSHA approved mask and rubber gloves are highly recommended. Equipment used in dyeing should never be returned to kitchen use. Read all warnings on dyes and chemicals. **KEEP ALL DYES AND CHEMICALS OUT OF THE REACH OF CHILDREN.**

Always test dyes before attempting an important project !!

Supplies

- Procion® MX dye
- salt
- soda ash
- Synthrapol™ soap
- Calgon (optional: for hard water use 1 T. per gallon)

Equipment

- plastic, enamel or stainless steel containers
(large amounts may be dyed in a bath tub, laundry tub, or washing machine)
- measuring spoons
- small jars for mixing
- rubber gloves
- stirring utensils (plastic or wood)

Procedure

1. weigh fiber
2. wash fiber to remove sizing and dirt: do not dry
3. calculate amount of water, dye, salt and soda ash according to chart on back
4. wearing a dust mask, dissolve dye in a small jar in a small amount of *warm* water
5. fill dyebath container with warm tap water (approximately 110° – 115° F)
6. add salt to dyebath – mix thoroughly
7. add dissolved dye to dyebath
8. enter wet fiber: stir for 10 minutes
9. dissolve soda ash in a small jar of *hot* water
10. remove fiber and add soda ash mixture to dyebath: mix thoroughly: replace fiber
11. stir every 10 minutes for 30-90 minutes – stir *constantly* for even distribution
12. remove fiber: wash in Synthrapol™ soap and rinse to remove excess dye:
rinse in cool water until water runs clear

weight of fiber	amount of water	amount of dye for desired shade:			amount of salt	amount of soda ash
		light	medium	dark		
1 lb	2½ gal	¾ tsp	2¼ tsp	3 Tbsp	2½ cups	3 Tbsp
¾ lb	2 gal	½ tsp	1 ¾ tsp	2 Tbsp	2 cups	2 Tbsp
½ lb	1¼ gal	tsp	1 tsp	1½ Tbsp	1¼ cups	1½ Tbsp
¼ lb	10 cups	¼ tsp	½ tsp	1 Tbsp	¾ cup	1 Tbsp

Special Notes

- 2 tablespoons equals approximately one 2/3 ounce jar of dye (dye is packaged by weight and may vary by color)
- do not increase amount of water without proportionately increasing the dye and chemical amounts
- cotton / polyester blends will only dye to a light shade
- for deep black and navy use double the amount of dye and salt for the full 90 minutes: blacks may need to be dyed twice
- reds may require more rinsing than other colors
- some lighter colors (ecru, peach, ice blue, etc.) work best at a light to medium shade

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