

## DIRECT APPLICATION - CIBACRON F REACTIVE DYES

To prepare a **2% Dye Stock Solution**, paste 20 grams of dye powder in a small amount of lukewarm water. Add water gradually to a total of 1000 ml, mixing thoroughly. Add a drop of white vinegar to each stock solution, and refrigerate until needed.

To prepare **Thickened Chemical Water** for cellulose fiber, dissolve 1-1/2 teaspoons of Calgon and 9 tablespoons of urea in 1 quart of warm water. Depending on the consistency desired, add between 1 and 6 tablespoons of sodium alginate (Pro Thick SH) to this chemical water to thicken it. This is most easily done in a blender, by gradually sprinkling alginate on top of the liquid as the blender is operating. Allow the resulting paste to sit for awhile after mixing in order to become smoother. Store it, covered, in a cool place.

### Procedure for Direct Application on Cellulose Fiber/Fabrics

1. Stretch fabric (which has been soaked in a washing soda solution, allowed to dry and then ironed) on the printing surface.
2. Stir dye stock solutions, add needed amounts to dye paste and apply as desired. Store dyes in the refrigerator when they are not in use.\*
3. Fix the dyes by batching: cover the printed fabric securely with plastic while dyes are still damp, and keep it covered for 24 hours (up to 48 hours for dark values). If you work on a piece over several days, batch it after each work period. Don't allow dyes to dry completely before batching.
4. Remove sodium alginate and excess dye from the fabric by thorough washing. (It's not necessary to wait for dyes to dry after batching before washing the fabric.) Rinse the fabric in large amounts of cool water until the rinse water runs clear. To avoid staining, don't allow wet fabric to rest on itself. Slowly increase water temperature, rinsing until water runs clear at each temperature level, until hot tap water is used. At this point, add a drop of Synthrapol to the water, wash, and then rinse until water runs clear. Iron fabric dry, or allow it to dry on a clean horizontal surface.

**Value Range Chart** - Amounts of 2% dye stock solution needed to obtain light, medium and dark values in 1/2 cup of dye paste:

<u>Value</u>	<u>Dye Paste</u>	<u>Stock Solution</u>	<u>Dye Powder</u>
Light	1/2 cup	1 tablespoon	1/4 teaspoon
Medium	1/2 cup	2 tablespoons	1/2 teaspoon
Dark	1/2 cup	6 tablespoons	1-1/2 teaspoons

\* If you do not soda soak your fabric, you must add soda ash to each dye paste just before you use it. Add 3/4 teaspoon of soda ash, dissolved in a small amount of warm water, to each 1/2 cup of dye paste. Stir it in thoroughly. Do not store or re-use these dye pastes. Fabric printed using this method needn't be batched, but it must be heat set before you wash it.