

## Recipes-Steps for Surface Design with Dye

### Step 1: Prepare fabric

**Only if necessary:** scour the fabric by machine washing for 15 minutes:

Hot water	140° F (60° C)
Soda ash	1/2 tsp (2.5 ml) per 1 lb (455 g) fabric
Synthrapol SP	1/2 tsp (2.5 ml) per 1 lb (455 g) fabric

**Soak** dry fabric in soda solution until it is thoroughly wet—5 to 20 minutes.

Warm	1 gallon (3.8 liters)
Soda ash	9 Tbs (135 ml)

### Step 2: Prepare print paste

Stir continuously while adding dry ingredients

**Short Cut using prepared MIX:**

Add 5 ½ TBS (80 ml) Print Paste Mix SH to one cup (240 ml) warm water.

EXTRA THICK print paste: use 1-2 TBS more prepared MIX per cup of water

**OR mix from scratch** adding ingredients in following order

Warm water	3 cups (720 ml)
Granular urea	6-1/2 Tbs (98 ml)
Metaphos	1-1/2 tsp (7.5 ml)
Sodium alginate SH	6 tsp (30 ml)
Water	To make a total of 1 quart (960 ml)

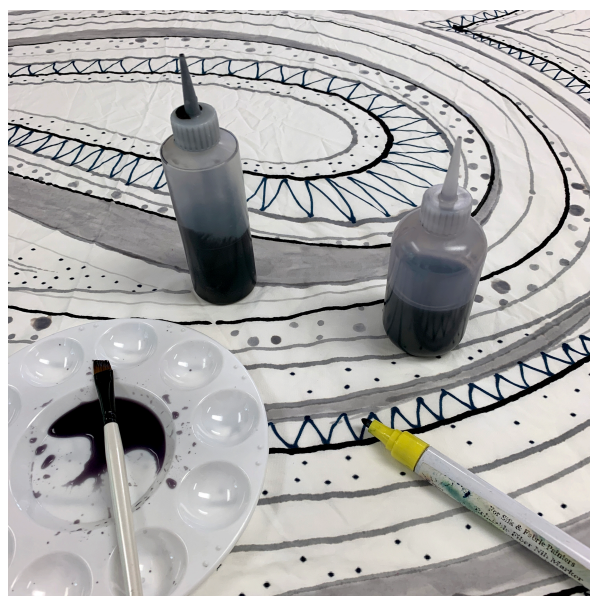
EXTRA THICK print paste from scratch: use 2-4 tsp additional Sodium alginate SH

### Step 3: Prepare the urea water.

Use to make lighter THIN colors and thinner print paste.

THINNED print paste, add urea water as needed. Equal parts works well.

Warm water	1 cup (240 ml)
Granular urea	7 tsp (35 ml)



#### **Step 4: Prepare dye concentrates.**

Use warm water, not over 95°F (35° C)

Warm water	1 cup (240 ml)
Urea	2 Tbs to 4 Tbs (15 ml to 30 ml)
Dye powder	2 Tbs (30 ml)

#### **Step 5: Prepare colors**

Prepare colors by combining dye concentrate with print paste and/or urea water.

Equal parts make a dark value.

Use less dye concentrate for lighter colors and more for very dark colors.

#### **Step 6: Apply the colors**

Apply to soda-soaked fabric. Use any surface design technique you choose

#### **Step 7: Cure the dye.**

Open or covered, flat or rolled, be sure to maintain a small amount of moisture.

Time	4 to 8 hours
Temperature	70° F to 110° F (21° C to 43° C)
Moisture	Almost dry to the touch or very wet

#### **Step 8: Wash out excess dye.**

Wash in warm water and Synthrapol. **Final wash hot: 140° F (60° C).**

Hand wash	1 tsp (5 ml)
Machine wash	1 Tbs to 4 Tbs (15 ml to 60 ml)

**Test for wash fastness** by ironing washed fabric (while it is still wet) on clean white cotton.