Roop Dyes & Intermediates

Where Color Meets Innovation

Reactive Dyes

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01. RDI Series

High reproducibility, migration, for pale shades, perfect compatibility

02. RGB Series

Economical dyes, high strength and build up properties

03. SPD Series

For medium shades, end user fastness properties, for critical shades

04. General Series

Good dischargeability, easy washing off, good wet fastness, for black and bright shades

05. Polyfunctional Series

High fastness for washing, easy shading, for bright and dark shades

06. Dischargeable Series

100% Dischargeable, suitable for garment dyeing, vintage effects, very good fastness

07. Printing Series

For fast printing,excellent wash off and bleeding properties

ROOPACTIVE SERIES

1. One Phase Method

- **Steaming Process:**

Print
↓
Dry
↓
Steam 10 minutes at 100-102˚C
↓
Wash

- **Dye Heat Process:**

Print
↓
Dry
↓
Back for 5 minutes at 105˚C
↓
or 1 minute at 200˚C

2. Two Phase Method

- **Pad Silicate Batch Process:**
  Print (Dyestuff Paste without alkali) → Dry → Silicate Pad (Sodium Silicate 100-106˚Tw) → 12 to 16 Hrs. Batch → Wash

PRINTING PASTE RECIPE :

Material	One Phase Method	Two Phase Method
Dyestuff	10-60 Parts	10-60 Parts
Urea	50-100 Parts	50-100 Parts
Hot Water	300 Parts	300 Parts
Sodium Alginate 4% (Thickener)	350-400 Parts	350-400 Parts
Resist Salt	10 Parts	10 Parts
Sodium Bicarbonate	15-30 Parts	-----
Water	X Parts	X Parts
Total	1000 Parts	1000 Parts

DISCHARGE PRINTING

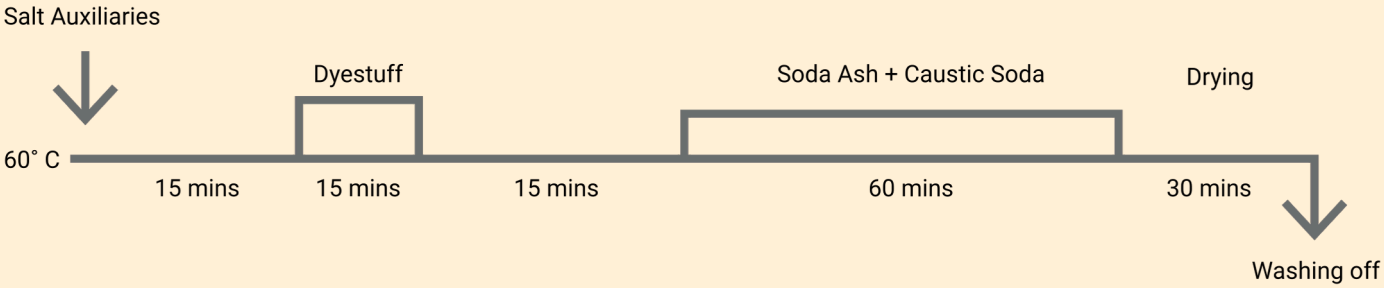
VS Based dyes are suitable for discharge printing. Cotton fabrics discharge is better than spun viscose fabrics. Prior to discharge printing, the dyed fabric should be treated with resist salt 10gms/lt. to protect the dyed ground shade from reducing effect.

DISCHARGE PRINTING PASTE RECIPE :

Sodium Alginate 4%	500 Parts
Rangolite	150-200 Parts
Titanium Dioxide	100 Parts
Caustic Soda	100-200 Parts
Water	X Parts
Total	1000 Parts

Dyed Pad
↓
Print (Dischage Printing Paste)
↓
Dry (at 80-90˚C)
↓
Steam for 5-10 minutes
↓
Wash

Exhaust Dyeing



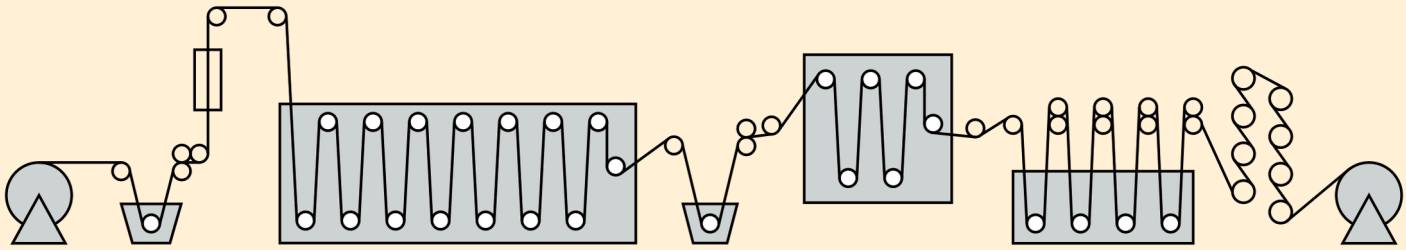
% Dye	Salt (g/l)	Soda Ash (g/l)	Caustic Soda 50%(ml/l)
<0.1	20	5	0
0.1 - 0.5	20 -25	5	0.6 - 0.75
0.5 - 1.0	25 - 40	5	0.75 - 0.9
1.0 - 2.0	40 - 50	5	0.9 - 1.2
2.0 - 3.0	50 - 60	5	1.2 - 1.5
3.0 - 5.0	60 - 80	5	1.5 - 2.0
>5.0	80 - 100	5	2.0

Washing-off Process

- 10 mins. at 50˚ C (de-ionised water)
- 10 mins. at 50˚ C
  (at pH 5-6 with acetic acid)
- 10 mins. at 80˚ C (de-ionised water)
- 10 mins. at 95˚ C (de-ionised water)
- 10 mins. at 80˚ C (de-ionised water)
- 10 mins. at 25˚ C (de-ionised water)

(Without Guarantee)

Pad - Dry - Chemical Pad - Steam Method



Pad : Dye, wetting agent, anti-migrant, mild oxidant, IR Pre-dry,
Dry : 110 - 130˚C Chemical Pad

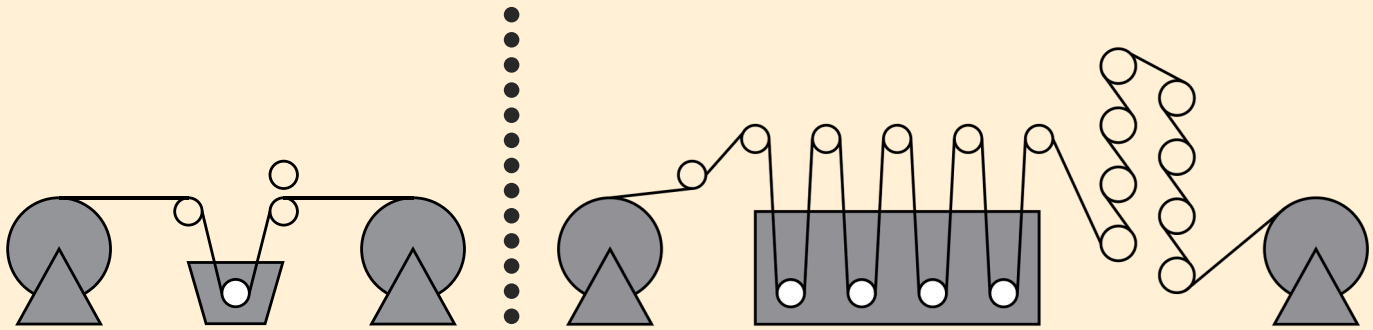
Dyestuff (g/l)	Comom Salt (g/l)	Soda Ash (g/l)	Caustic Soda 50%(ml/l)
<20	250	20	3
20-40	250	20	4
>40	250	20	6

Steam : 90 secs (saturated steam)

Washing-off Process

- 50˚ C (de-ionised water)
- 60˚ C (de-ionised water, acetic acid to pH 5-6)
- 95˚ C (de-ionised water + sequestrant)
- 95˚ C (de-ionised water + sequestrant)
- 95˚ C (de-ionised water + sequestrant)
- 80˚ C (de-ionised water)
- 60˚ C (de-ionised water)
- Cold (de-ionised water)

Cold Pad Batch Dyeing Method



1. Cold Silicate Method

Mixing pump required: Add 100 g/l urea to dye liquor (as necessary for solubility)

Dyestuff (g/l)	Sodium Silicate (38˚ Be)	Caustic Soda 50%(ml/l)
<20	50ml/l	11
30	50ml/l	14
40	50ml/l	12
50	50ml/l	12
60	50ml/l	17
70-100	50ml/l	20

Batch 16 hours 25˚ C

Washing-off Process

- Cold (de-ionised water)
- Cold (de-ionised water)
- 60˚ C (de-ionised water)
- 60˚ C (de-ionised water, acetic acid to pH 7)
- 95˚ C (de-ionised water + detergent)
- 95˚ C (de-ionised water + detergent)
- 95˚ C (de-ionised water)
- Warm (de-ionised water)

(Without Guarantee)

COLOR SERIES

SPD Series

- Very good compatibility for medium shades
- Selection for end user fastness properties and for critical shades

Roopactive SPD Series															
Std. Depth, Bleached, Exhaust, Isothermal 60°C			General Properties			Fastness Properties								Suitability	
1% Depth	3% Depth	Dyes Name	Dischargeability	Solubility at 30 Degrees	Affinity	Light Fastness, ISO 105-B02 (blue scale 1-8)	Washing ISO 105-C06-C2S (60 Deg X 30 Mins)	Perspiration, ISO 105-E04		Rubbing ISO 105X12		Hypochlorite Bleach ISO 105-N01	Oxidative Bleach, ISO 105-C09, 60°C	Exhaust at 60°	Cold Pad Batch
								Acid	Alkali	Dry	Wet				
		Yellow SPD	G	120	M	4-5	4-5	3	3-4	4-5	4	3	3	S	S
		Red SPD	F	120	M	4	4	3-4	3	4-5	4	3	3-4	S	S
		N. Blue SPD	F	100	M	4	4	3-4	4	4-5	4	3-4	3-4	S	S

Roop Dyes & Intermediates

Manufacturers & Exporters of Reactive & Other Dyes

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ISO 9001 : 2015 ISO 14001 : 2015 ISO 45001 : 2018

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