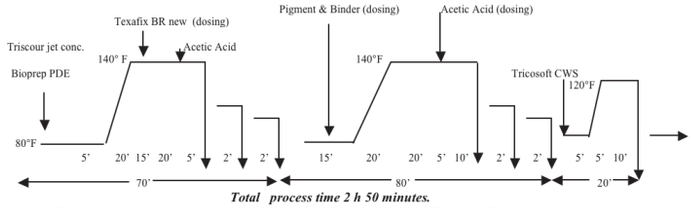
Dyeing with Pigments
Exhaust dyeing

Cationic Pre-treatment
- Set bath at 80°F (L/R 15:1)
- Add 0.3% **Triscour jet conc.**
- Optional 0.3% **Bioprep PDE** (Biopolish Enzymes)
- Heat to 140°F fast
- Add 5% **Texafix BR new** dozing over 15 minutes
- Circulate for 20 minutes
- Add 0.5% **Acetic Acid 56%** dosing 5 minutes
- Rinse overflow, Drop, Rinse warm

Pigment Dyeing
- Set bath at 80°F (L/R 15:1)
- Mix X% **Tripigment** with 4% (owg) of **Tribinder AC-M 2240N**
- Add **Tripigment** and **Tribinder AC-M 2240N** dosing over 15 minutes
- Heat to 140°F over 20 minutes
- Run for 20 minutes
- Add 1% **Acetic Acid 56%** dosing 5 minutes
- Run for 10 minutes
- Rinse overflow, drop.

Softener Application
- Set the bath at 80°F (L/R 15:1)
- Add 3% **Tricosoft CWS liq.**
- Heat to 120°F
- Run for 15 minutes
- Drop, Extract, Dry.

Method of Dyeing



Total process time 2 h 50 minutes.

*For heavy shade, cationisation could be performed with **Trifix GE** on alkaline side.*

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Garment Dyeing & Printing
color chart

Textile

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	1.0%	4.0%	Total Solid %	Pigment Solid %	PH	Fastness properties						Light fastness
						Staining Cotton	Shade Change	Dry (Rubbing)	Wet (Rubbing)	1% Dry Cleaning	4% Dry Cleaning	
Tripigment Yellow ED-3G			48	36	7±1	4-5	3-4	4	3-4	4-5	4-5	6-7
Tripigment G. Yellow ED-3R			49	36	7±1	4-5	3-4	3-4	3	4-5	5	6
Tripigment Orange ED-G			49	36	7±1	4-5	3-4	3-4	3	1-2	3	6
Tripigment Red N-3BD			55	35	7±1	4	4	3-4	3	2-3	3	7
Tripigment Violet ED-2R			45	30	7±1	4-5	3-4	3-4	3	4	4-5	7
Tripigment Turquoise N-CG			50	39	7±1	4-5	3-4	3	3	4	4	6-7
Tripigment Bleu ED-R			50	38	7±1	4-5	3	3-4	3	4	4	6-7
Tripigment Navy ED-BL			50	39	7±1	4	3	3-4	3	2-3	4	6
Tripigment Green ED-G			48	38	7±1	4-5	3-4	3-4	3	4-5	4-5	7
Tripigment Black ED-F			50	38	7±1	4-5	3-4	3-4	3	4-5	5	7

Typical procedure
for Pigment Printing

Printing Formulation

X.0 g/kg	**Tripigment**
800.0 g/kg	Stock thickening (CLEAR)
0-120 g/kg	**Tribinder HON-NF**
Y.0 g/kg	Stock thickening (to complete final volume)

Print, dry and cure for 3 minutes at 160°C.

Stock Thickening (CLEAR) Formulation

900.0 g/kg	Cold water
15.0 g/kg	**Triconc NF**
1.0 g/kg	**Kathon LX**
X.0 g/kg	Cold water (to adjust the viscosity)

Procedure to make stock thickening: (CLEAR)

- Charge the water.
- Add the **Triconc NF** and **Kathon LX**.
- Start the high shear agitator for 2-3 minutes then stop for 2-3 hours for best swelling.
- Stir for at least 10 minutes or until very smooth and homogenous.
- Add the **Tribinder HON-NF** and pigment.

Notes

A) To calculate the amount of binder to add to the print paste per kg, use the following formula:

The amount of binder required = 80 + ((3a) / 2) grams of binder.
a = concentration of pigments

Example: for 20 grams of pigment, we add:
80 + ((3 x 20) / 2) = 110 grams of binder / kg.