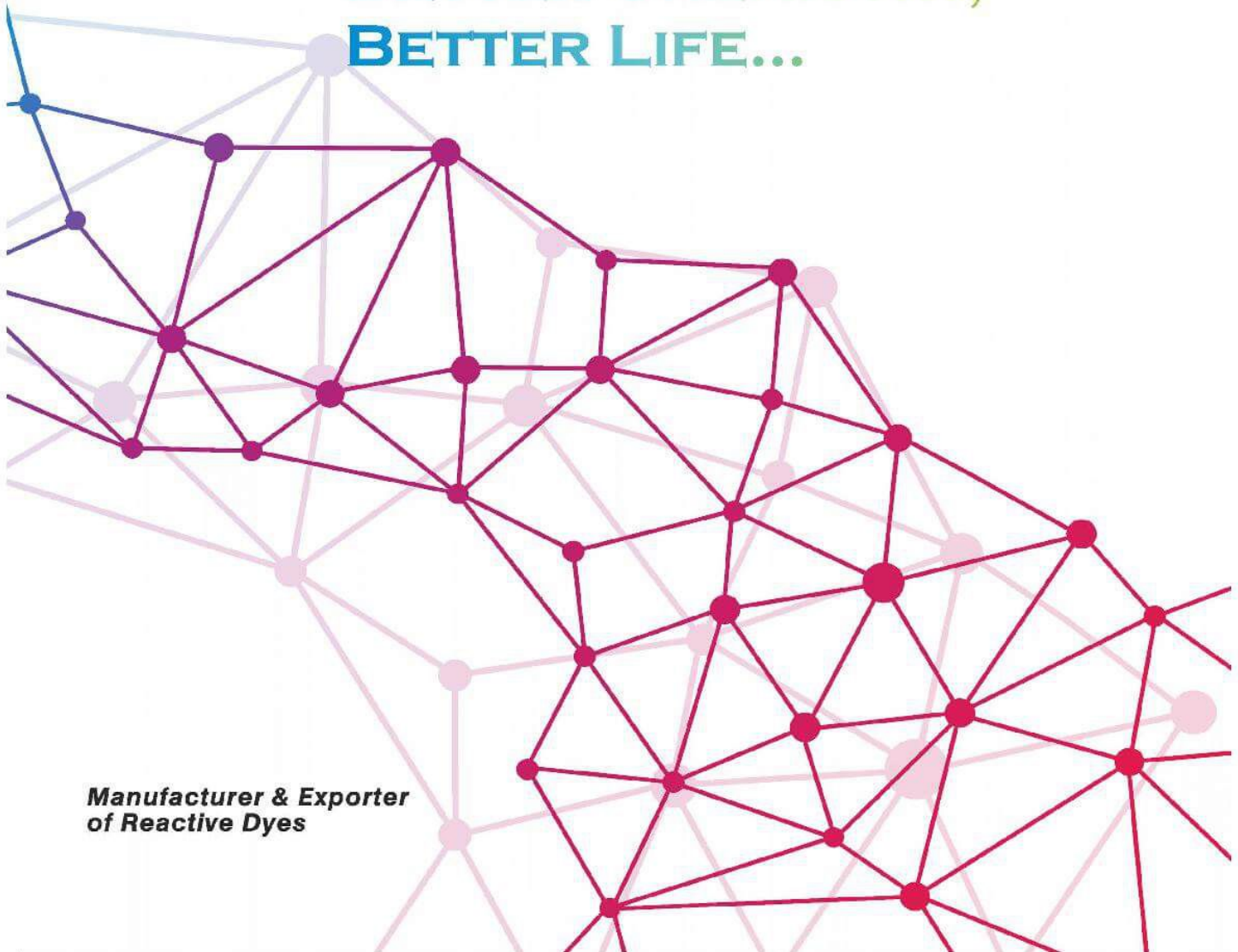




**BETTER CHEMISTRY,
BETTER LIFE...**

**Manufacturer & Exporter
of Reactive Dyes**





Lanata 'P' Series Reactive Dyes

Lanata 'P' Series Reactive Dyes, being Spray Dried R/O products with minimal salt content, offer prudent solutions for Textile Printing. The performances of the products usually match the specifications set by International Retailers and Buying Houses such as – Walmart, GAP, Adidas, Nike, Tommy Hilfiger, J.C. Penny, M & S and so on.

Salient Features of Lanata 'P' Series Reactive Dyes

- Significantly economical due to their excellent build-up.
- The dyes exhibit high solubility, low affinity, high diffusion along with high printing paste stability.
- Worth-while cost saving arising out of their simplicity and reliability in application.
- Wide shade range that combines brilliance and intensity in colors.
- Excellent all-round fastness properties to meet the International Standards.
- Satisfies the requirements set by major ecological standards.

Procedure of Printing

All the different methods of printing normally require a liquid vehicle, usually called "printing paste", in which the colorant is carried. The Lanata 'P' Series Reactive Dyes exhibit low reactivity with any cellulosic fibre, thereby providing excellent print paste stability even in presence of alkali. Reactivity between such reactive dyes from the print paste and the cellulosic take place only under the influence of heat. Also, due to low substantivity, such dyes in the hydrolyzed form have the least tendency to stain adjacent white materials, thereby, making them more popular for use by printing applications. The different printing methods followed are as under:

i) Steam Fixation

Recommended for both cotton and viscose rayon.

Printing Paste Recipe

Lanata 'P' Reactive Dye	X parts
Urea*	50-200 parts
Water	Y parts
Sodium Alginate (6% aqueous paste)	500 parts
Resist Salt	10 parts
Sodium Bicarbonate	15-20 parts
Bulk to	1000 parts

(* For Cotton 50-100 parts ; For Viscose 100-200 parts)

Method of Print Paste Preparation

- I) Mix Lanata 'P' Reactive Dye powder & urea dissolved by adding at 80°C.
- II) Mix Sodium Alginate (Thickener) and Resist Salt and add the dissolved dye and mix well.
- III) Just before printing, paste Sodium Bicarbonate in cold water and add to the printing paste.
- IV) Stir well and sieve through cotton cloth before printing.

Fixation Method

- Dry the printed goods, but over-drying to be avoided.
- Fixation on any conventional steamer. On Rapid Ager, steaming prints for 5-10 minutes at 100-103°C, while on Star Ager, for 15-20 minutes at same temperature.
- Saturated steam suggested for Viscose Rayon substrates.



ii) Dry Heat (Bake) Fixation

Recommended for Cotton only. Not for viscose rayon.

Printing Paste Recipe

Lanata 'P' Reactive Dye	X parts
Urea	200 parts
Water	Y parts
Sodium Alginate (6% aqueous paste)	500 parts
Resist Salt	10 parts
Sodium Bicarbonate	15-20 parts
Bulk to	1000 parts

Method of Print Paste Preparation

- V) Mix Lanata 'P' Reactive Dye powder & urea dissolved by adding at 80 °C.
- VI) Mix Sodium Alginate(Thickener) and Resist Salt and add the dissolved dye and mix well.
- VII) Just before printing, paste Sodium Bicarbonate in cold water and add to the printing paste.
- VIII) Stir well and sieve through cotton cloth before printing.

Fixation Method

- Dry the printed goods, but over-drying to be avoided.
- Fixation of prints done by baking process for 5 minutes at 150 °C, or, for 1 minute at 200°C.

iii) High Temperature Steam Fixation

Recommended for both cotton and viscose rayon.

Printing Paste Recipe



Lanata 'P' Reactive Dye	X parts
Urea	200 parts
Water	Y parts
Sodium Alginate (6% aqueous paste)	500 parts
Resist Salt	10 parts
Sodium Bicarbonate	15-30 parts
Bulk to	1000 parts

Method of Print Paste Preparation

- IX) Mix Lanata 'P' Reactive Dye powder & urea dissolved by adding at 80°C.
- X) Mix Sodium Alginate (Thickener) and Resist Salt and add the dissolved dye and mix well.
- XI) Just before printing, paste Sodium Bicarbonate in cold water and add to the printing paste.
- XII) Stir well and sieve through cotton cloth before printing.

Fixation Method






- Dry the printed goods, but over-drying to be avoided.
- Fixation of prints done by steam for 1 minute at 125-130°C for both cotton & viscose rayon.

Washing-Off of Printed Material



- Rinse thoroughly in cold running water.
- Rinse properly in boiling water for 5 minutes using non-ionic detergent, preferably overflowing hot water in case of one-bath process or counter flow of boiling water in open-width washing machine.
- Rinse in cold water & dry.

Important:







The following supersedes the Buyer's documents. This is intended to service as non-binding guidelines. Seller makes no representation or warranty, expressed or implied, including the fitness for a particular purpose. Data and results are based on controlled lab conditions and must be confirmed by Buyer by testing for the intended conditions of use.

LANATA 'P' REACTIVE DYES			Salt-Free Neutral Water Solubility (g/l) @30°C	FASTNESS PROPERTIES	
				LIGHT	
ISO 105 - B02		1/1 SD		1/3 SD	
10 gms/kg	40 gms/kg	Product Name	1/1 SD	1/3 SD	
		LANATA LEMON PC6G	100	5-6	
		LANATA YELLOW PC4G	125	5-6	
		LANATA GOLDEN YELLOW PC3R	125	5-6	
		LANATA ORANGE PC2R	125	5	
		LANATA RED PCB	125	5-6	
		LANATA RED PC4B	125	4	
		LANATA BLOOD PC2R	125	4-5	

FASTNESS PROPERTIES											
LIGHT		Chlorinated Water (20 ppm Active Chlorine)		WASHING		Perborate Wet Fading (M & S C9A)	CROCKING		PERSPIRATION (M & S C7)		
AATCC 16E - 20 AFU		ISO 105-E03	ISO 105-C06-C2S, @ 60°C		M & S C8		Acidic		Alkaline		
1/1 SD	1/3 SD	Shade Change	Shade Change	Staining (Cotton)			Dry	Wet	Shade Change	Staining (Cotton)	Shade Change
5	4-5	4	4-5	4-5	5	4-5	4	4-5	4-5	4-5	4-5
5	4-5	4-5	4-5	4-5	5	4-5	4	4-5	4-5	4-5	4-5
5	4-5	4-5	4-5	4	4-5	4-5	3-4	4	4	4	4-5
4	3-4	4	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5
4	3-4	4	4-5	4-5	4-5	4-5	4	4	4	4	4
4	3-4	4	5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5
4	4	4-5	4	4	4	4	3-4	4	4	4	4

			Salt-Free Neutral Water Solubility (g/l) @30°C	FASTNESS PROPERTIES	
				LIGHT	
LANATA 'P' REACTIVE DYES				ISO 105 - B02	
10 gms/kg	40 gms/kg	Product Name		1/1 SD	1/3 SD
		LANATA CARDINAL PC3R	140	4	4
		LANATA RED BROWN PC4R	65	5-6	5
		LANATA MAGENTA PCB	100	4	3-4
		LANATA PURPLE PC3R	100	5-6	5-6
		LANATA BLUE PC5R	60	5-6	5
		LANATA ROYAL PC3R	100	5-6	5-6
		LANATA TURQUOISE PCG	100	5-6	5-6

FASTNESS PROPERTIES											
LIGHT		Chlorinated Water (20 ppm Active Chlorine)		WASHING		Perborate Wet Fading (M & S C9A)	CROCKING		PERSPIRATION (M & S C7)		
AATCC 16E - 20 AFU		ISO 105-E03	ISO 105-C06-C2S, @ 60°C		M & S C8		Acidic		Alkaline		
1/1 SD	1/3 SD	Shade Change	Shade Change	Staining (Cotton)			Dry	Wet	Shade Change	Staining (Cotton)	Shade Change
3-4	3-4	4	4	4-5	4	4	2-3	4	4	4	4
4-5	4	4	4	3-4	5	4-5	4	4-5	4	4-5	3-4
4	3-4	3	4-5	4	4	4-5	4	4-5	4-5	4-5	4-5
5	4-5	4	4-5	4-5	5	4-5	3-4	4-5	4-5	4-5	4-5
4-5	4	3	4-5	4-5	4-5	4-5	4	4-5	4-5	3-4	4-5
5	4-5	4	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4-5
5	4-5	4	4-5	4	4-5	3	3-4	4-5	4	4-5	3-4

LANATA 'P' REACTIVE DYES			Salt-Free Neutral Water Solubility (g/l) @30°C	FASTNESS PROPERTIES	
				LIGHT	
10 gms/kg	40 gms/kg	Product Name		ISO 105 - B02	
			1/1 SD	1/3 SD	
		LANATA NAVY PCR	50	4	3-4
		LANATA BLACK PCN	100	5-6*	.*
		LANATA BLACK PCR	100	5*	--

FASTNESS PROPERTIES												
LIGHT		Chlorinated Water (20 ppm Active Chlorine)	WASHING			Perborate Wet Fading (M & S C9A)	CROCKING		PERSPIRATION (M & S C7)			
AATCC 16E - 20 AFU			ISO 105-E03	ISO 105-C06-C25, @ 60°C			M & S C8		Acidic		Alkaline	
1/1 SD	1/3 SD	Shade Change	Shade Change	Staining (Cotton)	4-5	Dry	Wet	Shade Change	Staining (Cotton)	Shade Change	Staining (Cotton)	
4	3-4	4	4-5	4-5		4-5	4-5	4	4	4-5	4	4-5
4-5*	.*	4	4	4		4-5	4-5	4	4-5	4	4-5	3-4
4*	--	3-4	5	4-5	4-5	5	4	5	4-5	5	4-5	

(* implies 2/1 Standard Depth For Any Black)

Pattern Illustration : On R.F.D. Cotton



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