Coralene Red BEL

A non dischargeable and high energy red disperse dye with high light fastness suitable for various applications on polyester

Suitability / Application:

Substrate:		
Fiber / Yarn	-	◒
Sewing threads	-	●
Piece dyeing	-	●
Micro fibers / fabric	-	◨
P/C Blends - Exhaust, 2 bath	-	◒
P/C Blends - Continuous	-	◨
P/Elastane Blends	-	◨
P/W Blends	-	○
Process:		
Exhaust dyeing:		
Low temperature with carrier	-	○
Carrier dyeing at 110^{0}C	-	○
HT, 130^{0}C	-	●
HT, Alkaline dyeing (buffered at pH 9.5)		●
Continuous dyeing	-	●
Printing	-	●
Development method in printing:		
Pressure Steaming	-	◨
HT Loop Steaming	-	●
Discharge printing	-	
Dischargeable ground	-	○
Discharge resistant illuminant	-	●

Exhaust Dyeing

1.33%

4.00%

8.00%

(Dyeing at 130^{0}C for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

General properties:

C.T.Z.:	95 - 125^{0}C
Leveling at 130^{0}C:	Good
Migration:	Moderate
pH range for application :	3.0 - 7.0
Dischargeability:(Zinc sulphoxylate formaldehyde)	Non dischargeable
Sensitivity to metal (Fe):	High
Stripping method:	-
Saturation value in HTHP exhaust dyeing:	8.00%
(On 80D/36F polyester knit fabric)	

Continuous dyeing

40.0 g/l on P/C cloth

Shade change under artificial light:

D 65	Inc A	F 11 (TL 84)	F02 (CWF)	UL 35
Control	YY	Y	GG	Y

Cross staining on other components of blends in one bath dyeing:

Substrate	CA	PAN	PA	Cellulosic	Wool
Staining in dyebath	High	Moderate	High	Moderate	High
Staining after R.C.	High	Moderate	High	Low	High

(Abbreviation: ● - Suitable, ○ - Not Suitable, ◒ - Limited suitability, ◨ - Not Recommended, R - Redder, G - Greener, B - Bluer)

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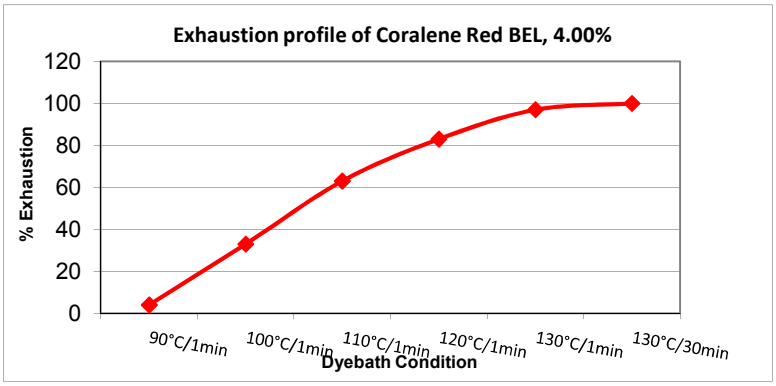
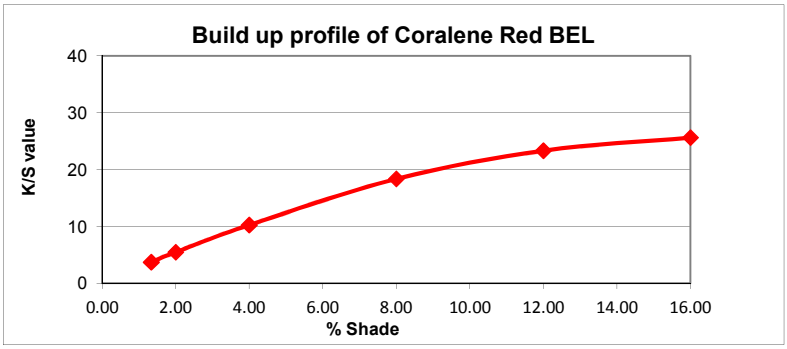
Product Performance:



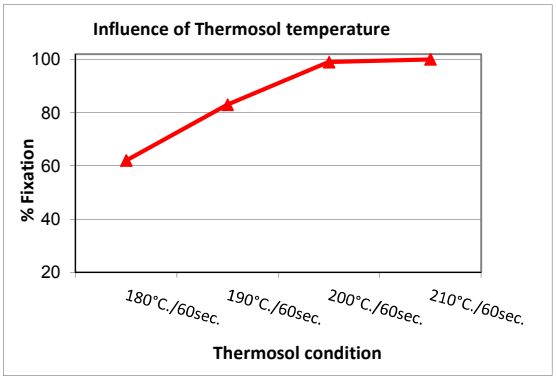
(Dyeing at different dyebath temperature on polyester fabric at pH 4 adjusted with Levocol 4398)



(Exhaust dyeing different depth at 130^{0}C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

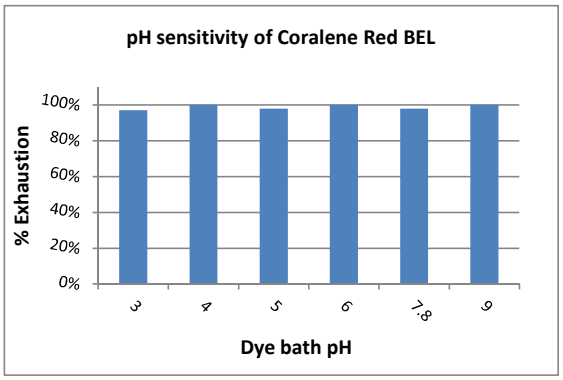
Thermosol Application:

40.0gpl Coralene Red BEL on P/C fabric



pH Sensitivity:

4.00% Coralene Red BEL in exhaust dyeing



Fastness Properties: (Tested on 80D/36F 100% PET Knit dyed by exhaust method)

- Light fastness (ISO 105 B02)
- Light fastness (AATCC 16, Option 3, 20 AFU)

	Shade change (Rating)		
	0.67%	**1.33%**	**4.00%**
	6	6	6
	4.0	4.0	4.0

- Sublimation fastness at 4.00% depth (ISO 105 P01, 30 Sec)

Temperature	**180^{0}C**	**190^{0}C**	**200^{0}C**
C.O.S.	4-5	4-5	4-5
Staining on PET	4-5	4	4

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Fastness Properties: (Tested at 4.00 % depth, on 80D/36F 100% PET Knit dyed by exhaust method and post set at 180^{0}C for 30 Sec)

		Staining on						
		C.O.S.	Acetate	Cotton	Nylon	Polyester	Acrylic	Wool
● Perspiration Light fastness (ISO 105 B07)	Acidic	4-5						
● Perspiration Light fastness (ISO 105 B07)	Alkaline	4-5						
● Wash fastness (ISO 105 C06, A2S,)		4	3-4	4-5	3-4	4	4-5	4-5
● Wash fastness (ISO 105 C06, C2S,)		4	3	4	2-3	4	4-5	4
● Wash fastness (ISO 105 C10 C, 60^{0}C)		4	3-4	4	3-4	4	4-5	4-5
● Wash fastness (AATCC 61 Option 2A, 49^{0}C)		4.0	2.5	4.0	2.0	4.0	4.5	3.5
● Dry cleaning fastness (ISO 105 D01)		4	4-5	4-5	4-5	4-5	4-5	4-5
● Water fastness (ISO 105 E01)		4-5	4	4-5	4	4-5	4-5	4-5
● Sea water fastness (ISO 105 E02)		4-5	4	4-5	4	4-5	4-5	4-5
● Chlorinated water (ISO 105 E03)	20 ppm	4						
● Chlorinated water (ISO 105 E03)	50 ppm	4						
● Perspiration fastness (ISO 105 E04)	Acidic	4-5	4	4-5	4	4-5	4-5	4-5
● Perspiration fastness (ISO 105 E04)	Alkaline	4-5	4	4-5	4	4-5	4-5	4-5
● Hypochlorite bleach fastness (ISO 105 N01)		4-5						
● Peroxide bleach fastness (ISO 105 N02)		4-5		4-5		4-5		
● Crocking fastness (ISO 105 X12, Dry/Wet)				4/4-5				
● PVC migration (ISO 105 X10)		3-4	(Staining on PVC film)					
● Saliva fastness (DIN 53160)		5	(Staining on filter paper)					

Note:

Disclaimer: This information is provided in good faith, to the best of our knowledge and without liabilities.

Colourtex Industries Private Limited,
91, Bhestan, Surat - 395023 (India)
Domestic: Tel.: +91 261 2897800/2897801 E mail: sales.surat@colourtex.co.in
Export: Tel.: +91 261 2891427 /2897428 E mail: ctx.export@colourtex.co.in