

Coralene Navy Blue EX-SF 300%

A medium energy economical navy disperse dye suitable for exhaust dyeing 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°C	-	●
HT, 130°C	-	●
HT, Alkaline dyeing (buffered at pH 9.5)	-	●

Continuous dyeing

	-	○
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Printing

	-	○
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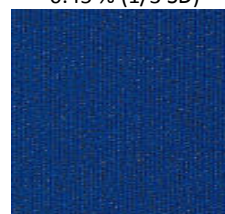
Development method in printing:

Pressure Steaming	-	○
HT Loop Steaming	-	○

Discharge printing

Dischargeable ground	-	○
Discharge resistant illuminant	-	○

Exhaust Dyeing
0.45 % (1/3 SD)



1.35 % (1/1 SD)



2.70 % (2/1 SD)



[Dyeing at 130°C for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398]

General properties:

C.T.Z.:	105° - 120°C
Leveling at 130°C:	Good
Migration:	Good
Recommended pH range for dyeing :	3.0 - 8.0
Dischargeability:(Zinc sulphoxylate formaldehyde)	Moderate
Sensitivity to metal (Fe):	Low
Stripping method:	Reductive
Saturation value in HTHP exhaust dyeing:	4.00%
(On 80D/36F polyester knit fabric)	

Shade change under artificial light:

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

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

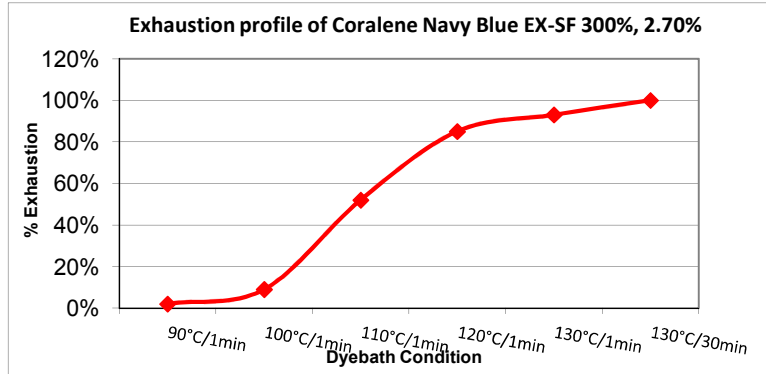
Substrate	CA	PAN	PA	Cellulosic	Wool
Staining in dyebath	High	Moderate	High	Low	Moderate
Staining after R.C.	High	Moderate	High	Low	Low

(Abbreviation: ● - Suitable, ○ - Not Suitable, ◐ - Limited suitability, ◻ - Not Recommended, R - Redder,

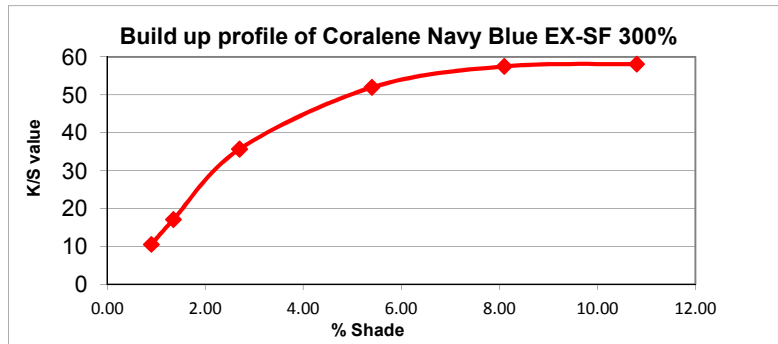
G - Greener, B - Bluer)

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Product Performance:



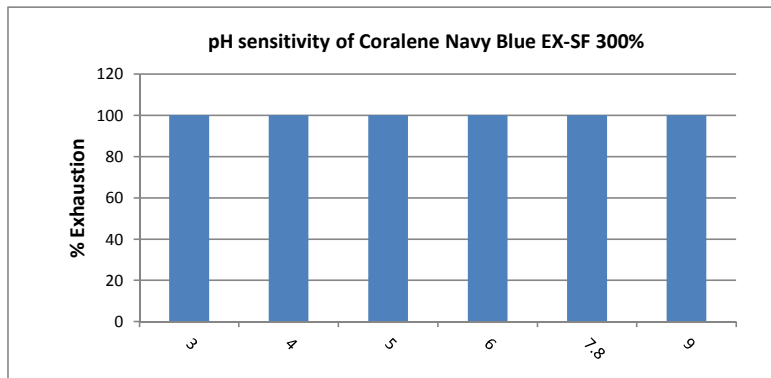
(Dyeing at different dyebath temperature on polyester fabric at pH 4 adjusted with Levocol 4398)



(Exhaust dyeing different depth at 130⁰C temperature for 45 min on polyester fabric at pH 4 adjusted with Levocol 4398)

pH Sensitivity:

2.70 % Coralene Navy Blue EX-SF 300% in exhaust dyeing



(Exhaust dyeing at 130⁰C temperature for 45 min on polyester fabric at different dyebath pH)

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)
- Sublimation fastness as Navy, 2.70% (ISO 105 P01, 30 Sec)

Shade change (Rating)		
0.45%	0.90%	2.70%
3-4	3-4	5
3.5	4.0	4.0

Temperature	170 ⁰ C	180 ⁰ C	190 ⁰ C
C.O.S.	4-5	4-5	4-5
Staining on PET	3-4	2-3	2

Coralene Navy Blue EX-SF 300%

Fastness Properties: (Tested at 2.70 % depth, on 80D/36F 100% PET Knit dyed by exhaust method and post set at 180°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	3-4	4	4
● Wash fastness (ISO 105 C06, C2S,)		4	3	4	2-3	3	4	3-4
● Wash fastness (ISO 105 C10 C, 60°C)		4	4	4-5	4	4	4-5	4-5
● Wash fastness (AATCC 61 Option 2A, 49°C)		4.0	3.0	4.0	2.5	3.0	4.0	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	4-5	4-5	4	4-5	4-5	4-5
● Sea water fastness (ISO 105 E02)		4-5	4-5	4-5	4	4-5	4-5	4-5
● Chlorinated water (ISO 105 E03)	20 ppm	4-5						
● Chlorinated water (ISO 105 E03)	50 ppm	4						
● Perspiration fastness (ISO 105 E04)	Acidic	4-5	4-5	4-5	4	4-5	4-5	4-5
● Perspiration fastness (ISO 105 E04)	Alkaline	4-5	4-5	4-5	3-4	4	4-5	4
● Hypochlorite bleach fastness (ISO 105 N01)		4						
● Peroxide bleach fastness (ISO 105 N02)		4		4-5		3-4		
● Crocking fastness (ISO 105 X12, Dry/Wet)				4/4-5				
● PVC migration (ISO 105 X10)		2-3	(Staining on PVC foil)					
● Saliva fastness (DIN 53160)		5.0	(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

Export: Tel.: +91 261 2891427 /2897428

E mail: sales.surat@colourtex.co.in

E mail: ctx.export@colourtex.co.in