



## *Adicron Series*



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# Greenville Colorants

Color	Dye Name	Light Fastness Xenon	Wash Test # 2A Alt * CO Stain * PES Stain	Dry Cleaning Alt * CO Stain * PES Stain	Acid Perspiration Alt * CO Stain * PES Stain	Crock Test Wet * Dry	Solvent Bleed Stain	Sublimation		Artificial Light	Atmospheric Dyeing
								380oF/ 30 sec. PES Stain * CO Stain	340oF/ 30 sec. PES Stain * CO Stain		
4.5%	Adicron Brill. Flavine 8GFF Disperse Yellow 82	4	4-5 5 5	5 5 5	5 5 5	5 5 5	5	4-5 4-5	4 4	Greener	Suitable with Limitations
2.8%	Adicron Brill. Yellow 10GFF Disperse Yellow 184	4	4-5 5 5	5 5 5	5 5 5	5 5 5	5	4-5 4-5	4 4	Greener	Suitable with Limitations
2%	Adicron Yellow 6G 200 % Disperse Yellow 114	6					5	4-5 4-5			Suitable
0.25%	Adicron Yellow 4NGLS Disperse Yellow 211	6-7					5	4 4			Unsuitable
1%	Adicron Yellow UN-SE Disperse Yellow	6-7	5 5 5	5 5 5	5 5 5	5 5 5	5	4-5 5	3-4 4-5	Redder	Unsuitable
1%	Adicron Yellow 3GE 200% Disperse Yellow 54	5-6	4-5 5 5	5 5 5	5 5 5	5 5 5	5	4-5 5	3-4 4-5	Redder	Suitable
1.5%	Adicron Yellow ACE Disperse Yellow	5-6	5 5 5	5 5 5	5 5 5	5 5 5	5	4 4-5 5	3 3-4 4	Redder	Suitable
2%	Adicron Yellow GWL Disperse Yellow	6-7					4-5	4 4			Suitable with Limitations
1.5%	Adicron Yellow 2R Disperse Yellow 86	7-8	5 5 5	5 5 5	5 5 5	5 5 5	5	4 4-5	3 4	Redder	Suitable with Limitations
0.9%	Adicron Yellow 5R Conc. Disperse Yellow 23	6-7	4-5 5 5	5 5 5	5 5 5	5 5 5	5	4-5 5	34- 4-5	Redder	Suitable
2%	Adicron Orange RSE Disperse Orange 73	5	5 5 5	5 5 5	5 5 5	5 5 5	5	5 5	4 4-5	Redder	Unsuitable
0.8%	Adicron Orange 2RA -S Disperse Orange 25:1	4	4-5 5 5	5 5 5	5 5 5	5 5 5	5	4-5 5	4 4-5	Redder	Suitable
1.3%	Adicron Orange 2GR Disperse Orange 25	4-5	4-5 5 5	5 5 5	5 5 5	5 5 5	5	4-5 5	3-4 4-5	Redder	Suitable
1.5%	Adicron Orange H-2GFS Disperse Orange 44	5	4-5 5 5	5 5 5	5 5 5	5 4-5	4-5	5 5	4-5 5	Redder	Unsuitable
2%	Adicron Orange UN-SE Disperse Orange	6	5 5 5	5 5 5	5 5 5	5 5 5	5	4 4-5	2-3 3-4	Redder	Unsuitable
1.7%	Adicron Dark Orange 3GH Conc. Disperse Orange 37	4-6	5 5 5	5 5 5	5 5 5	5 4-5	5	4-5 4-5	3-4 4	Redder	Suitable
2.1%	Adicron Orange YBLH Disperse Orange 29	6-7	4-5 4-5 4-5	5 5 5	5 5 5	5 4-5	4	4-5 4-5	3 4	Redder	Suitable
1.9%	Adicron Brown 2RFL Disperse Orange 30	5	5 5 5	5 5 5	5 5 5	5 -45	5	4-5 5	4 4-5	Redder	Suitable with Limitations
1.7%	Adicron Brown 2R Disperse Brown 1	4-5	4-5 5 5	5 5 5	4-5 4-5 4-5	5 4-5	4	5 5	4 4-5	Redder	Unsuitable
2%	Adicron Green SC6 Disperse Green	5-6	5 5 4-5	5 5 5	5 5 5	5 5	4-5	4-5 4-5	3-4 4-5	Yellower	Suitable with Limitations
3.5%	Adicron Brill. Pink REL Disperse Red 91	7-8	4-5 5 5	5 5 5	5 5 5	5 5	3	4-5 4-5	3 4-5	Yellower	Unsuitable
1.75%	Adicron Red ACE Disperse Red	5-6	4-5 5 5	5 5 5	5 5 5	5 5	5	3-4 4-5	2-3 3-4	Yellower	Suitable



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								380oF/ 30 sec. PES Stain * CO Stain	340oF/ 30 sec. PES Stain * CO Stain		
1%	Adicron Carmine UN-SE Disperse Red	5-6	5	5	5	5	5	3-4	2-3	Yellower	Unsuitable
			5	5	5	4-5		3-4			
			5	5	5	3-4		3-4			
1.75%	Adicron Red BNSE Disperse Red 127	5-6	5	5	5	5	5	4	3-4	Yellower	Unsuitable
			5	5	5	4-5		4			
			5	5	5	4		4			
1%	Adicron Brill. Red FB 200% Disperse Red 60	6-7	4-5	5	5	5	5	4	2-3	Yellower	Suitable
			5	5	5	4-5		4			
			5	5	5	4		4			
0.8%	Adicron Scarlet 2R Disperse Red 153	4	4-5	5	5	5	5	5	4-5	Yellower	Suitable with Limitations
			5	5	5	5		5			
			5	5	5	5		5			
1.5%	Adicron Scarlet H-GF Disperse Red 135	5	5	5	5	5	4	5	4-5	Yellower	Unsuitable
			5	5	4-5	5		4-5			
			5	5	5	5		5			
1.25%	Adicron Scarlet 2GH Disperse Red 50	5-6	5	5	5	5	4-5	4-5	3-4	Yellower	Suitable
			5	5	5	5		4-5			
			5	5	5	5		4-5			
1.25%	Adicron Red FTS Disperse Red 177	4	4-5	5	5	5	4-5	5	5	Yellower	Unsuitable
			5	5	5	5		5			
			5	5	5	5		5			
1.25%	Adicron Red MG Disperse Red 65	5	5	5	5	5	4-5	4-5	4	Yellower	Suitable
			5	5	5	5		4-5			
			5	5	5	5		4-5			
1.5%	Adicron Red 3BLS Disperse Red 167:1	6	5	5	5	5	4-5	5	4-5	Yellower	Suitable
			5	5	5	5		5			
			5	5	5	5		5			
1.5	Adicron Rubine SEGFL 200% Disperse Red 73	6	5	5	5	5	5	4-5	4	Yellower	Suitable
			5	5	5	5		4-5			
			5	5	5	5		4-5			
1.5%	Adicron Violet HFRL Disperse Violet 26	5	5	5	5	5	4-5	4-5	3-4	Redder	Suitable
			5	5	5	5		4-5			
			5	5	5	5		4-5			
2.4%	Adicron Violet 2RB Disperse Violet 28	6	5	5	5	5	5	3-4	2-3	Redder	Suitable
			5	5	5	4-5		4-5			
			5	5	5	5		4-5			
1%	Adicron Blue BG 200% Disperse Blue 60	6-7	5	5	5	5	5	4-5	3-4	Greener	Suitable
			5	5	5	5		4-5			
			5	5	5	5		4-5			
.5%	Adicron Blue ESG Disperse Blue 291	4-5	4-5				4-5		4		Unsuitable
			4-5					4			
2.5%	Adicron Blue GLF New Disperse Blue 27	6	4-5	5	4-5	5	4	5	4-5	Greener	Unsuitable
			5	5	4-5	5		4-5			
			5	5	4-5	5		4-5			
2%	Adicron Blue BLF Disperse Blue 77	5	5	5	5	5	5	4-5	3-4	Greener	Suitable
			5	5	5	5		4			
			4-5	5	5	5		4			
1.5%	Adicron Blue FBL Disperse Blue 56	6-7	5	5	5	5	5	3-4	2-3	Greener	Suitable
			5	5	5	5		4			
			5	5	5	5		4			
1.5%	Adicron Blue FBLN Disperse Blue 56(s)	6	5	5	5	5	5	3-4	3	Redder	Suitable
			5	5	5	5		4			
			5	5	5	5		4			
1.5%	Adicron Blue ACE Disperse Blue	5-6	5	5	5	5	5	3-4	2-3	Greener	Suitable
			5	5	5	5		4			
			5	5	5	5		4			
1.6%	Adicron Blue SBGL Disperse Blue 73	5-6	4-5	5	5	5	4-5	5	4-5	Greener	Suitable with Limitations
			5	5	5	5		5			
			5	5	5	5		5			
0.75%	Adicron Blue R-AT Disperse Blue	3-4	5	5	5	5	4-5	4	3-4	Redder	Suitable
			5	5	5	5		4			
			4-5	5	5	5		4			
0.75%	Adicron Dark Blue B-SE 200% Disperse Blue	4	5	5	5	5	4-5	4	3	Redder	Suitable
			5	5	5	5		3+4			
			5	5	5	5		3+4			



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								380oF/ 30 sec. PES Stain * CO Stain	340oF/ 30 sec. PES Stain * CO Stain		
2%	Adicron Navy BT Disperse Blue 35	5					4		4 4		Suitable
2%	Adicron Dark Blue RB Disperse Blue 55(s)	5	3 3				4		2-3 2-3		Suitable
3%	Adicron Navy AR Disperse Blue 281	5	3-4 3-4				5		3-4 3-4		Suitable with Limitations
3%	Adicron Navy ECO 300 Disperse Blue	5	4 4				5		4-5 4-5		Unsuitable
2%	Adicron Navy Blue GRL 200% Disperse Blue 79	5-6	4-5 5 4	5 5 5	5 5 4-5	5 4	3	5 5	4 4-5	Greener	Unsuitable
2%	Adicron Navy ABBA Disperse Blue	4-5	5 5 4-5	5 5 5	5 5 5	5 5	4	4 4-5	3 3-4	Yellower	Suitable
6%	Adicron Black DS Disperse Black	6	4-5 4-5 4-5	5 5 5	5 4-5 4-5	5 5	3	4 4-5	2 3-4	Redder	Suitable
3%	Adicron Black RB-FS 200% Disperse Black	5	4-5 Redder 4-5 4-5	4 5 5	5 5 5	5 4-5	3-4	4 4-5	3 3-4	Redder	Suitable
6%	Adicron Black PR New Disperse Black	5-6	4-5 5 3	5 5 5	5 5 5	5 4-5	4	3-4 4	2 3	Greener	Suitable
4%	Adicron Black ET 200% Disperse Black	6	4-5 5 4	5 5 5	5 5 5	5 4-5	3-4	3-4 4-5	2 3-4	Redder	Suitable
6.25%	Adicron Black BT 200% Disperse Black	5-6	4 3-4				4-5		3-4 3-4		Unsuitable
5%	Adicron Black ECO 300% Disperse Black	5-6	4 4				5		4 4		Unsuitable
5%	Adicron Black GFP 300% Disperse Black	5-6	4-5 4-5				5		4 4		Unsuitable

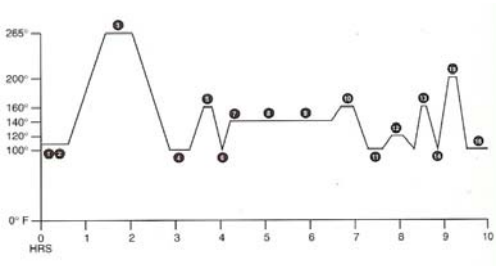
### DYEING PROCEDURE FOR POLYESTER/COTTON BLENDS USING ADICRON DISPERSE DYES AND ADIFIX VS DYES

Greenville Colorants suggests a Reverse Dyeing Procedure for dyeing polyester/cotton blends. Both the conventional and reverse dyeing methods are illustrated in the graphs below.

If the ADICRON Disperse dyes are used in the soaping bath for the fiber reactive dyes, water and energy consumption are reduced, therefore making this method more economical. The Reverse Dyeing Procedure works especially well when dyeing light to medium dark depths and requires only half of the number of refills as well as allows for quicker clean up of the exhausted reactive dye from the cotton portion of the lot.

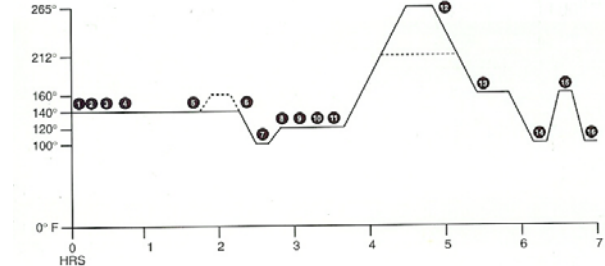
Since the entire dye cycle can be completed in three hours less time than the conventional procedure, dye house production can be increased by one lot per day.

## Conventional Dyeing Procedure



1. Fill At 110°F. Add 1.0% dispersing agent and 0.5% Acetic Acid Run 5 minutes.
2. Add ADICRON disperse dye over 15 minutes. Run 5 minutes.
3. Heat to 265°F at 3°F/min. Hold 30 minutes.
4. Drop and refill cold. Run 10 minutes
5. Drop and refill cold. Heat to 160°F with 1.0% surfactant. Run 15 minutes
6. Drop and refill cold. Run 10 minutes.
7. Drop and refill cold. Heat to 140°F (rapid rise). Add 1.0% sequestering agent.
8. Add salt over 20 minutes. Run 15 minutes
9. Add ADIFIX VS reactive dyes over 15 minutes. Hold 15 minutes.
10. Add alkali over 30 minutes. Hold 30 minutes. When using ADIFIX VS Turquoise VS-RP, heat to 160°F at 2°F per minute and hold 15 minutes.
11. Drop bath over 20 minutes. Fill at 100°F and give a 10-minute overflow rinse.
12. Heat to 120°F. Add 0.5% Acetic Acid. Hold 5 minutes.
13. Drop and refill at 100°F. Heat to 160°F. Run 5 minutes.
14. Drop and refill cold. Add 1.0% nonionic soap.
15. Heat to 200°F at 7°F/min. Hold 10 minutes.
16. Drop and refill cold. Give a 10-minute overflow rinse. Repeat.

## Reverse Dyeing Procedure



1. Fill at 140°F (rapid rise). Add sequestering agent at 5 minutes.
2. Add salt at 10 minutes.
3. Add ADIFIX VS reactive dye at 30 minutes and hold over 30 minutes.
4. At 45 minutes, add alkali over 30 minutes and hold 30 minutes.
5. When using ADIFIX VS Turquoise VS-RP, heat to 160°F at 2°F per minute and hold 15 minutes.
6. Drop bath over 20 minutes. Fill at 100°F and give a 10-minute overflow rinse.
7. Heat to 120°F.
8. Add Acetic Acid to pH 5.0-6.0.
9. Add dispersing agent.
10. Add ADICRON disperse dye.
11. Heat to 265°F at 3°F/min. Hold 30 minutes. When using ADIFIX VS Turquoise VS-RP, heat to 212°F at 3°F per minute and hold 60 minutes.
12. Cool to 160°F at 3°F per minute.
13. Add sequestering agent and hold 10 minutes.
14. Drop to 100°F and rinse cold 10 minutes.
15. Drop and refill. Add 1.0% surfactant and heat to 160°F and hold 10 minutes.
16. Drop and rinse cold 10 minutes.



## APPLICATION PROCEDURES

### Atmospheric Dyeing Procedures

1. Set fresh bath with 4.0% carrier and Acetic Acid to pH 4.5-5.0.
2. Circulate 10 minutes and add x% prepared dyes.
3. Circulate 10 minutes.
4. Heat to 212°F at 2°F / min.
5. Cool, rinse and dry.
6. Heatset at 360°F for 30 seconds.

### High-Temperature Dyeing Procedure

1. Fill machine with 140°F water and set the liquor ratio at 10:1 to 15:1 with 0.25%- 0.5%- sequestering agent solution and 1.00%-3.00% carrier. Add ADICRON dyes pre-dispersed at 120°F and run for 10 minutes at 140°F.
2. Add Acetic Acid to pH 4.5-5.0
3. Heat to 265° F at 3-6°F /min.
4. Run for 15-60 minutes depending on depth of shade and dyeing equipment.
5. Cool to depressurization temperature.
6. Sample
7. Continue cooling to 160° F.
8. Rinse hot.
9. Reduction scour, if necessary, at 160° F.
10. Rinse cold.

## FASTNESS RATINGS

All Fastness ratings were conducted in accordance with AATCC Standard Test Methods where applicable. Ratings of alteration and stain were made according to the AATCC Grey Scales.

### Alteration of Shade

- 5 – Shade unaltered
- 4- Very slightly altered
- 3- Noticeably altered
- 2- Distinctly altered
- 1-Considerably altered

### Stain

- 5- No staining
- 4- Very light staining
- 3- Noticeable staining
- 2- Considerable staining
- 1- Heavy staining

### Lightfastness

Hours	Ratings	Class
320	8	Outstanding
160	7	Excellent
80	6	Very Good
40	5	Good
20	4	Fairly Good
10	3	Fair
5	2	Poor
<5	1	Very Poor

### XENON-

AATTC Test Method 16E-1990: Colorfastness to light, water-cooled xenon arc lamp- continuous light. Tests were conducted on untreated fabric.

### **\*\*Disclaimer:**

Seller assumes no obligation or liability, whether in contract, tort, negligence, strict liability or misrepresentation for any advice or assistance given Buyer in relation to the merchandise, such advice or assistance, written or oral, being given without charge and accepted by Buyer's request and at his sole and exclusive risk. Samples will be made available at Buyer's request. Buyers are urged to make their own tests of any product described herein or of any proposed application with respect to which advice or assistance from Seller may be sought.

The fastness properties of the enclosed dyeings are dependent upon the conditions to which they are subjected, and may vary considerably if the dyed fabric is treated with additional chemicals such as fixing or finishing agents. Consequently, the dyed/finished fabric should be tested to assure that the fastness properties meet the necessary requirement. Not all shades can be produced with desired fastness properties. This point should be carefully considered before putting shades into production. The information given is based on work done in our laboratories; consideration should be given to possible variations under local conditions.