

# Corafix RP

Solution to retailer fastness requirement

- Weathering fastness
- Oxidative bleach fastness



 **colourtex**<sup>®</sup>  
The Dyestuff Company



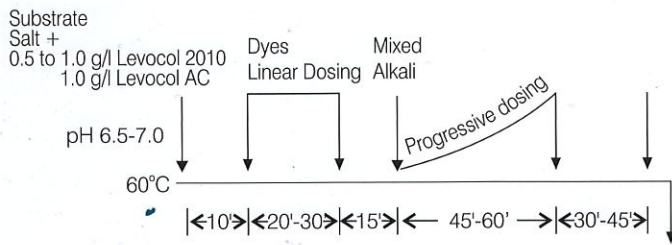


Gold RP	Orange RP	Red Brown RP	Red RP-N*	Maroon RP	Blue RP*
2.50%	2.50%	1.35%	5.20%	1.14%	3.0%
165	70	125	100	125	140
100	<20	100	40	100	100
✓	✓	✓	✓	✓	✓
✓	✗	✓	✓	✓	✓
✓	✗	✓	✓	✓	✓
✓	✗	✓	✓	✓	✓
6	5	5-6	4	6	6
5	4	4	3-4	3-4	5-6
5	4	3-4	3-4	4	5-6
---	---	---	3-4	---	5-6
4.5	4.0	4.0	4.5	4.0	4.5
4.0	3.5	3.5	4.0	4.0	4.5
4.0	3.0	3.5	4.0	3.5	4.0
---	---	---	3.5	---	4.0
4.0	3.5	3.5	4.0	3.5	4.0
3.5	3.0	3.0	3.0	3.5	4.0
3.5	2.5	3.0	3.0	2.5	3.5
---	---	---	3.0	---	3.5
4 On tone	3-4 On tone	4 On Tone	4 On Tone	4 On Tone	4 On Tone
4 On Tone	3 On tone	4 On Tone	4 On Tone	4 On Tone	4 On Tone
4 On Tone	2-3 On tone	3-4 On tone	4 On Tone	3-4 On tone	4 On tone
---	---	---	3-4 On Tone	---	4 On tone
4-5 On tone	4-5 On Tone	4-5 On Tone	4-5 On tone	4-5 On Tone	4-5 On Tone
4-5 On Tone	4-5 On tone	4-5 On tone	4-5 On tone	4-5 On Tone	4-5 On Tone
4-5 On Tone	4-5 On tone	4-5 On tone	4-5 On tone	4-5 On Tone	4-5 On Tone
---	---	---	4-5 On tone	---	4-5 On Tone
4.5	3.5	3.5	3.0	3.5	3.5
3.5	3.0	2.5	2.5	2.5	3.5
3.5	3.0	2.5	2.5	2.5	3.5
---	---	---	2.5	---	3.0
4.5	4.0	4.0	3.5	4.0	4.0
3.5	3.5	3.0	3.0	3.0	3.0
3.5	3.5	3.0	3.0	3.0	3.0
---	---	---	3.0	---	3.0
5-6	4	3-4	6	4	4
5-6	3-4	3-4	4-5	4	4
5-6	3	3-4	4-5	4	4
4/4-5	4/4	4/4-5	4/4-5	4/4-5	4/4-5
4/4-5	4/4	4/4-5	4/4-5	4/4-5	4/4-5
4/4-5	4/4	4/4-5	4/4-5	4/4	4/3-4
4.0/4.5	4.0/4.0	4.0/4.5	4.0/4.0	4.0/4.0	4.0/4.5
4.0/4.5	4.0/4.0	4.0/4.5	4.0/4.0	4.0/4.0	4.0/4.0
4/4-5	4/4	4/4.5	4/4.5	4/4.5	4/4.5
4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5
4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5
4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5
3-4 On tone	4 On tone	4 On tone	4-5 On Tone	4-5 On Tone	4 On Tone
3-4 On tone	4-5 On Tone	4-5 On Tone	4-5 On Tone	4 On Tone	4 On Tone
3-4 On tone	4-5 On Tone	4-5 On Tone	4-5 On Tone	4 On Tone	4 On Tone
3-4	4	3-4	3-4	4	4
4	4	4	4	4	4
3-4	4	4	4	4	3-4
3	4	3-4	3-4	4	3-4
4-5	4-5	4-5	4-5	4-5	4-5
3-4	3	3	2-3	2-3	3
5	5	5	5	5	5
5	5	5	5	5	5
3	3-4	3	3	3-4	2-3
4-5/4-5	4-5/4	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4
4/4-5	4/4-5	4/4-5	4-5/4-5	4/4-5	4/4-5
4-5/4-5	4-5/4-5	4-5/4-5	4/4	4/4	4-5/4-5
4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5	4-5/4-5
D	ND	D	ND	ND	ND

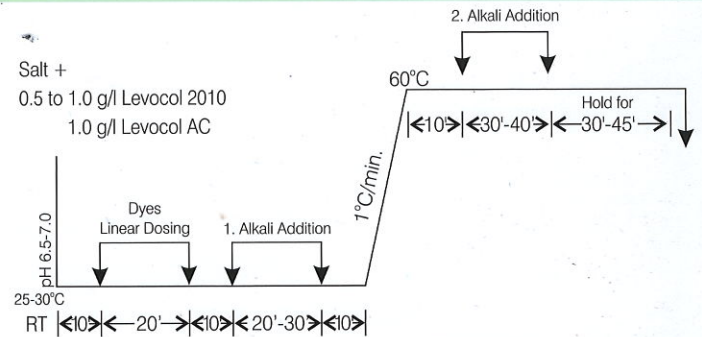
Dark Blue RP*	Grey RP*	Cyan RP	Royal Blue RP	Navy RP-R	Navy RP-G
2.42%	4.5%	2.70%	3.00%	1.43%	1.50%
125	100	200	100	150	125
100	60	200	80	100	90
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	✓	✓
✓	NA	✓	✓	✓	✓
✓	NA	✓	✓	✓	✓
5	6	5-6	6	3-4	3
4	6		5	3	2-3
4	5-6	4-5	5	3	
---	5-6	4-5	---	---	---
4.0	4.5	4.5	4.5	3.5	4
3.5	4.5	---	4.5	3.0	3
3.0	4.5	4	4.0	3.0	
---	4.5	4	---	---	---
3.5	4.0	4	4.0	2.5	3.5
3.0	4.0		4.0	2.0	2.0
2.5	4.0	3.5	3.5	2.0	---
---	4.0	3	---	---	---
4 On Tone	4 On Tone	4	4 On Tone	3-4 On Tone	3-4 On Tone
3-4 On Tone	4 On Tone	---	4 On Tone	3 On Tone	2-3 Off Tone
3-4 On Tone	4 On Tone	3-4	3-4 On Tone	3 On Tone	---
	4 On Tone	3-4	---	---	---
4-5 On Tone	4-5 On Tone	4-5	4-5 On Tone	2-3 On Tone	4-5 On Tone
4-5 On Tone	4-5 On Tone	---	4-5 On Tone	2-3 On Tone	4 On Tone
4-5 On Tone	4-5 On Tone	4-5	4-5 On Tone	2-3 On Tone	
	4-5 On Tone	4-5	---	---	---
3.0	3.5	4.5	4.5	2.0	4
2.5	3.5	---	3.5	2.0	3.0
2.5	4.0	4.5	3.5	2.0	
	3.5	4.5	---	---	---
3.5	4.0	---	4.5	2.5	---
3.0	3.5	---	3.5	2.0	---
3.0	4.0	---	3.5	2.0	---
	3.5				
5.0	6	Better than 6	4	3	4-5
4.0	6	Better than 6	4	2-3	3.0
3-4	5-6	6	4	2-3	3.0
4/4-5	4/3	4/4	4/4-5	4/4-5	4/4-5
4/4-5	4/3	4/4	4/4-5	4/4-5	4/4-5
4/4-5	4/3	4/4-5	3-4/4-5	4/4-5	4/3
4.0/4.5	4.0/4.5	4/4	4.0/4.5	4.0/4.5	4/4.5
4.0/4.0	3.5/2.5	4/3.5	4.0/4.5	4.0/4.5	4/4-5
4/4.5	4/3	4/3-4	4/4.5	4/4.5	4/4.5
4/4.5	4.5/4.5	4-5/4	4.5/4.5	4.5/4.5	4-5/4-5
4-5/4-5	4.5/4.0	4-5/4	4-5/4-5	4-5/4-5	4-5/4-5
4-5/4-5	4.5/4.5	4-5/3-4	4-5/4-5	4-5/4-5	4-5/4-5
3-4 On Tone	4 On Tone	4-5 On Tone	3-4 On Tone	2-3 Off Tone	4 On Tone
3-4 On Tone	4 On Tone	4-5 On Tone	3 On Tone	2-3 Off Tone	---
3-4 On Tone	4 On Tone	4-5 On Tone	2-3 On Tone	2-3 Off Tone	---
3-4	2-3	3	4	2-3	3
3	2-3	3-4	1-2	3	4
3-4	3	2-3	3	3	3-4
3-4	2-3	1-2	3	2-3	3
4-5	4	4-5	4-5	4-5	4-5
3	3-4	3	3-4	3	3
5	5	3	5	5	5
5	5	3-4	5	5	5
2-3	2	3-4	3.0	2-3	3-4
4-5/4	4-5/3	4-5/4	4-5/4	4-5/4-5	4-5/4-5
4/4-5	4/4-5	4/4-5	4/4-5	4/4-5	4/4-5
4/4	4/4	NA	4/4	4/4	NA
4-5/4-5	4-5/4-5	NA	4-5/4-5	4-5/4-5	NA
ND	ND	ND	ND	D	D

# Application - Exhaust dyeing

## Isothermal Process



## Temperature rise Process



## Salt and Alkali recommendations for Corafix RP dyeing on unmercerised cotton

MLR 1:10

MLR 1:5

Dyes %	Corafix RP Dyes (Dyeing at 60°C)				Dyes %	Corafix RP Dyes (Dyeing at 60°C)			
	Salt gpl	Soda gpl	Mixed Alkali			Salt gpl	Soda gpl	Mixed Alkali	
			Soda gpl	Caustic (50%) ml/lit				Soda gpl	Caustic (50%) ml/lit
Up to 0.5%	20	10	-	-	Up to 0.5%	20	10	-	-
0.5 to 1.0%	40	10	5	0.75 to 1.0	0.5 to 1.0%	35	12	6	0.9 to 1.1
1.0 to 2.0%	50	15	5	1.0 to 1.5	1.0 to 2.0%	45	15	6	1.1 to 1.5
2.0 to 4.0%	60	20	5	1.5 to 2.0	2.0 to 4.0%	60	20	6	1.5 to 2.0
4.0 to 5.0%	70	-	5	2.0 to 2.25	4.0 to 5.0%	70	20	6	2.0 to 2.5
5.0 & above	80	-	5	2.25 to 3.0	5.0 & above	80	20	6	3.0

## Salt and Alkali recommendations for Corafix RP dyeing on mercerised cotton and regenerated cellulose (Viscose)

MLR 1:10

MLR 1:5

Dyes %	Corafix RP Dyes (Dyeing at 60°C)		Dyes %	Corafix RP Dyes (Dyeing at 60°C)	
	Salt gpl	Soda gpl		Salt gpl	Soda gpl
Up to 0.5%	20	5	Up to 0.5%	15	6
0.5 to 1.0%	30	6	0.5 to 1.0%	25	8
1.0 to 2.0%	40	8	1.0 to 2.0%	35	10
2.0 to 4.0%	50	10	2.0 to 4.0%	45	12
4.0 to 5.0%	50	12	4.0 to 5.0%	50	15
5.0% above	60	15	5.0% above	50	20

## Wash-off process in exhaust application

1. Overflow rinse cold.
2. Neutralisation with acetic acid at 50°C for 10 minutes.
3. Hot wash at 80°C for 10 minutes.
4. Soaping at 98°C with 1g/l Levocol 2010 (anionic detergent) for 10 minutes (for deep shade above 5% depth additional soaping at 98°C for 10 min. is required)
5. Again hot wash at 80°C for 10 minutes.
6. Rinse cold & adjust pH (6.0) of fabric.



## Cold pad batch dyeing using Sodium Silicate and Caustic Soda

Dyes	X	gpl
Levocol NF (Wetting agent)	1-2	gpl
Urea (if required)	50-200	gpl
Sodium Silicate (58-60° Be / 133°Tw) (Na <sub>2</sub> O:SiO <sub>2</sub> = 1:2.1)	85	gpl
Sodium Silicate in the stock tank - should be approx. 45 to 50°Tw		
Caustic Soda (72°TW)	4-12	ml/lit. (For shades above 30gpl)
<b>Dosing</b>		
Dye : Alkali	4:1	
Expression	55-65%	
Batching time	16 hrs.	
Liquor Temperature	25°C±2°	
Fixation Temperature	25°C±2°	

## Cold pad batch dyeing using Soda Ash - Caustic Soda

General recommendation						
Dye	gpl	<20	20-40	40-60	60-80	80-100
Soda Ash	gpl	20	20	20	20	20
Caustic soda (50%)	ml/lit.	3	5	7	9	11

Mixing pump required Padding / Batching Temperature - 25°C ± 2°

*Recommendation for selected range						
Dye	gpl	<20	20-40	40-60	60-80	80-100
Soda Ash	gpl	20	20	20	20	20
Caustic soda (50%)	ml/lit.	1	2	4	6	8

Mixing pump required Padding / Batching Temperature - 25°C ± 2°

## Pad-Dry-Pad-Steam method

### Dye Padding

Dyes	x	gpl
Levocol NF (Wetting agent)	2	gpl
Levocol AMK (Anti migrating agent)	5-10	gpl
Levocol RESIST (Mild oxidant)	5	gpl
Padding temp.	25°C	
% Expression	55-65%	

Drying (with IR- pre-drying ) at 120-140°C- Cool the fabric

### Chemical Pad with

Dye conc. (gpl)	<20	20-40	40-60	>60
Salt (gpl)	250	250	250	250
Soda Ash (gpl)	20	20	20	20
Caustic soda (50%) (ml/lit.)	3	4	6	8

Steaming at 102°C in saturated steam for 60-90 seconds followed by Washing off process

The information provided here is in good faith, as per our current knowledge of the product without any liability.