



Bodal Chemicals Ltd.
COLOURS. INTEGRATION. INNOVATION.

Bodactive A New Definition of Printing

BODACTIVE BNC-P RANGE

For Cellulose Printing



Quality is our strength

BODACTIVE BNC-P DYES	COTTON	
	1 %	3 %
Bodactive Yellow BNC-P6G		
Bodactive Yellow BNC-P4G		
Bodactive Golden Yellow BNC-PR		
Bodactive Orange BNC-P2R		
Bodactive Red BNC-P2B		
Bodactive Red BNC-P4B		
Bodactive Red BNC-6BX		
Bodactive Red BNC-P6B		
Bodactive Red BNC-P8B		
Bodactive Magenta BNC-PB		
Bodactive Purple BNC-P3R		
Bodactive Brown BNC-P2R		
Bodactive Blue BNC-P3R		
Bodactive Blue BNC-PGR		
Bodactive Blue BNC-P5R		
Bodactive Turquoise Blue BNC-P5G		
Bodactive Navy Blue BNC-PR		
Bodactive Black BNC-PN		
Bodactive Black BNC-PGR		

Fastness Properties (on cotton)													
Light			Washing				Water		Chlorinated Water (ISO-105-E03)	Perspiration (ISO-105-E04)			
ISO-105-B02			ISO-105-C03		ISO-105-C04		ISO-105-E01			Acidic		Alkaline	
1/25	1/1	2/1	Effect	Stain	Effect	Stain	Effect	Stain		Effect	Stain	Effect	Stain
5	5-6	6	4	4-5	4	4-5	4-5	4-5	3-4	4-5	4-5	4-5	4-5
5	6	6	5	5	5	5	5	4-5	1	5	5	5	5
5	6	6	5	5	4-5	4-5	5	5	3-4	5	5	4	5
3	4	4	5	5	4-5	5	5	4-5	5	4-5	4	4-5	5
4	4-5	5	4-5	4-5	4-5	4	4-5	4	3-4	4-5	4	4-5	4
4-5	4-5	5	4-5	4-5	4-5	4-5	4-5	4	3-4 BI	4-5	4	4-5	4
3-4	4	4-5	4-5	4-5	4	4	4-5	4	3	4-5	4-5	4	4
3-4	4	4-5	4-5	4-5	4	4	4-5	4	3-4	4-5	4	4-5	4
4	4-5	5	4-5	5	4	5	4-5Y	4	4-5 BI	4-5	5	5	4
4	5	5-6	4-5	4	4-5	4	4-5	4	3	4-5	4	4-5	4-5
6	6-7	6-7	4-5	5	4-5	5	4-5	4	3-4	5	3-4	5	4
5	6	6	5	4	4-5	5	5	4-5	4-5	4-5	4-5	4-5	4-5
5-6	6	6-7	5	5	4-5	5	5	5	2	4-5	5	4-5	5
5	5-6	-	5	5	5	5	5	4-5	2	5	5	4-5	5
5	5	6	4-5	5	4-5	5	5	4	1	4-5	3	4-5	4
4-5	5	6	4-5	4	4	3	4-5	3	2	4-5	3	4-5	3
3-4	3-4	4	4-5	4-5	4-5	4	5	5	3-4	4-5	4	5	4
4-5	6-7	-	5	5	5	5	5	3-4	3-4	4-5	3	4-5	3-4
-	4	5	5	4-5	5	4-5	5	4-5	4-5	4-5	4-5	4-5	4

Fastness Properties			Suitability									General Properties	
Hot Pressing (ISO-105-X11)		Wet Rub Fastness (ISO-105-X12)	Atmospheric Steaming		H.T. Steaming		Baking		Flash Age	Wet Develop-ment	Silicate pad-batch	Maximum Printing Strength gm / kg	Print Paste Stability
Dry Effect													
Immedi-ate	After 4 Hrs		2-5 Min.	5-10 Min.	3-5 Min. @125°C	1 Min. @150°C	5 Min. @150°C	1 Min. @200°C	10-45 Secs	8-15 Secs			
3-4	4-5	4	●	●	●	●	●	●	●	●	70	6 Days	
3-4 R	4-5 R	4	●	●	●	●	●	●	●	●	60	6 Days	
2 D	3 R	3-4	●	●	●	●	●	●	○	●	60	7 Days	
1 R	5	3-4	●	●	●	●	●	●	●	●	55	7 Days	
2 BI	5	3-4	●	●	●	●	●	●	●	●	60	7 Days	
2 BI	4-5 BI	3-4	●	●	●	●	●	●	●	●	50	5 Days	
2 BI	5	3-4	●	●	●	●	●	●	●	●	50	5 Days	
2 BI	5	3-4	●	●	●	●	●	●	●	●	60	7 Days	
2 BI	5	3-4	●	●	●	●	●	●	●	●	70	7 Days	
2	5	3	●	●	●	●	●	●	●	●	60	5 Days	
3 BI	5	3-4	●	●	●	●	●	●	●	○	50	5 Days	
2Y, D	5	3-4	○	●	●	●	●	●	○	○	60	5 Days	
4 R,D	5	4-5	○	●	●	●	●	●	○	○	60	6 Days	
3 R	5	4-5	○	●	●	●	●	○	●	○	60	5 Days	
4-5 R	5	3-4	●	●	●	●	●	○	●	●	60	6 Days	
4	5	3	●	●	●	●	●	●	○	○	50	3 Days	
4-5 R	5	3	●	●	●	●	●	●	●	○	70	5 Days	
5	5	3-4	○	●	●	●	●	●	○	○	60	7 Days	
4-5	5	3-4	○	●	●	●	●	●	○	○	70	5 Days	

N=No change, R=Redder, BI=Bluer, Y=Yellower, G=Greener, D=Duller

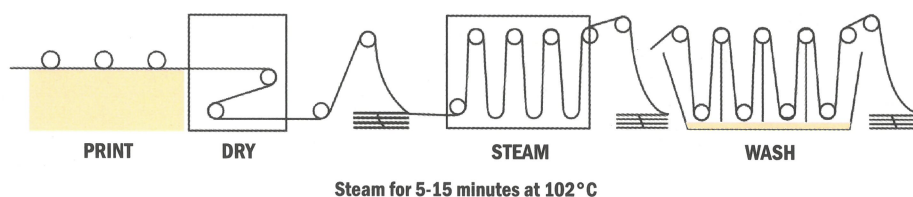
● Suitable ○ Not Suitable



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BODACTIVE BNC P DYES

ATMOSPHERIC STEAMING METHOD



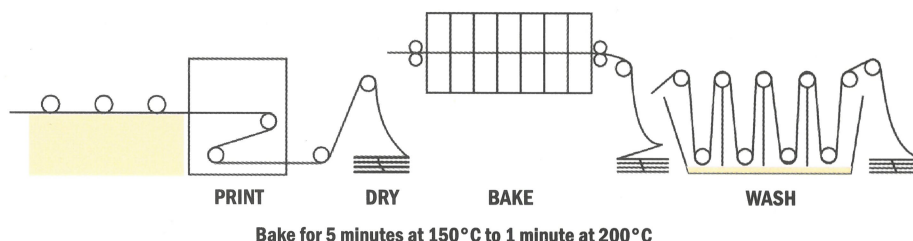
Stock thickening :

Alginate stock	
Sodium Alginate	50-100gm
Water to make	1000gm

Printing Recipe (In Parts)

	Cotton
Bodactive dye	X
Urea	50-100
Wetting agent (Bodax VNF)	20
Resist Salt	10
Alginate stock	400-600
Sodium bicarbonate	25-30
or	
Sodium carbonate	20-30
Water to make	1000

BAKING METHOD

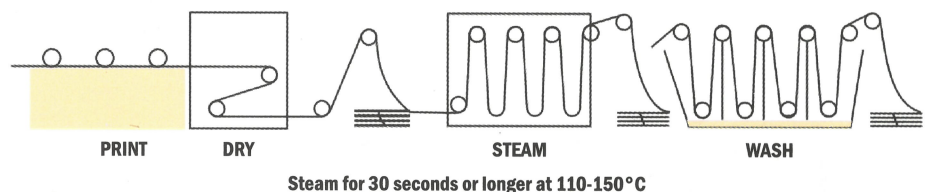


Printing Recipe (In Parts)

	Cotton
Bodactive dye	X
Urea	150-200
Wetting agent (Bodax VNF)	20
Resist Salt	10
Alginate stock	400-600
Fixing agent	5-8
Sodium bicarbonate	30
or Sodium Carbonate	20
Water to make	1000

Bake fixation is not recommended for viscose fabrics. Sodium hexameta phosphate sequestrant reduce colour yield of Bodactive printing dyes in the presence of some wetting agent.

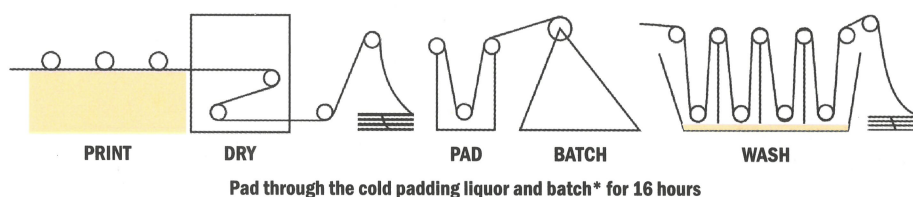
HIGH TEMPERATURE STEAMING METHOD



Printing Recipe (In Parts)

	Cotton
Bodactive dye	X
Urea	200
Wetting agent (Bodax VNF)	20
Resist Salt	10
Alginate stock	400-600
Sodium carbonate	15-30
Water to make	1000

PRINT-BATCH FIXATION



Printing Recipe (In Parts)

	Cotton
Bodactive dye	X
Urea	100
Wetting agent (Bodax VNF)	20
Resist Salt	10
Alginate stock	400-600
Water to make	1000
Padding Liquor : Use undiluted sodium silicate 101-104° Tw (48°-50° Bé)	
*Batching time for BODACTIVE Turquoise Blue BNC P-5G is kept 24hrs for better yield (depth realisation)	

Washing off :-The only way to obtain white ground, good fastness, brilliancy is to carry out proper washing off process, Washing off depends on bath pH, auxiliaries, washing time & temp. After complete removal of alkali prints are washed first at 60-70°C & then soaped (with Bodax DXCW - 0.5 to 1.0 gpl) at 90-95°C.

All unfixed & unhydrolysed dye must be removed from fabric to ensure maximum fastness.

(The information in this shade card is given in good faith but without warranty. Freedom patent rights must not be assumed.)



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