

1. Cold Pad-Batch Process



(a) Alkali requirements in padding liquor:

A. Silicate free method:	X g/l
Everzol ED dyes	5+x/5 cc/l
Caustic soda (38°B'e)	0~20 g/l
Soda ash	0~30 g/l
Glauber's salt (option)	

(b) Fixation time: above 12~16hrs at 25°C

2. Pad-Dry-Pad-Steam Process

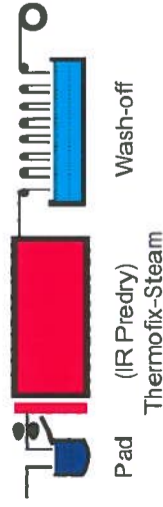


Pad IR pre-dry & dry

(a) Padding liquor:	x g/l
Everzol ED dyes	1 g/l
Migration inhibitor	10 g/l
Reduction inhibitor	0~2 g/l
Penetrating agent	

Padding liquor temperature at 20~25°C

3. Emsoifix Process



(a) Padding liquor:	X g/l
Everzol ED dyes	5-10 g/l
Reduction inhibitor	0-1 g/l
Migration inhibitor	0-50 g/l
Urea (option)	

B. Sodium silicate method:

Sodium silicate (g/l)	Amounts of Everzol ED dyes used (g/l)					
	~20	30	40	50	60	70†
37~40°B'e	130	23.5	28.5	28.5	33.5	38.5
40~42°B'e	110	23.5	28.5	28.5	33.5	38.5
48~50°B'e	100	15	20	20	25	30
58~60°B'e	90	6	11	11	16	21

C. Modified silicate method:

Sodium silicate (g/l)	Amounts of Everzol ED dyes used (g/l)					
	~10	20	30	40	50	60†
37~40°B'e	65	7	12	12	17	22
40~42°B'e	55	7	12	12	17	22
48~50°B'e	50	5	10	10	15	20
58~60°B'e	45	3	7	7	11	16

Penetrating agent in padding liquor : 0~2g/l
Padding liquor temperature at 20~25°C
Alkali mixer is required.

(b) Drying:

IR pre-drying
Residual moisture down to appr. 30%
Drying at 110~130°C
Cooling goods after drying

(c) Chemicals padding:

A. Sodium silicate (48~50°B'e)	60~70 %
B. Caustic soda (38°B'e)	14~20 cc/l
Common salt	250 g/l
C. Caustic soda (38°B'e)	12~18 cc/l
Soda ash	20 g/l
Common salt	250 g/l

(d) Steaming:

Saturated steam at 102~105°C 30~70secs

(b) Alkali requirements :

Everzol ED	Amounts of dyes used (g/l)					
	~20	20~40	40~60	60~80	80~100	100†
NaOH (38°B'e)	7	11	14	17	21	24
Na ₂ CO ₃	20 g/l					

Penetrating agent in padding liquor : 0~2g/l
Padding liquor temperature at 20~25°C
Alkali mixer is required.

(c) Fixation time : 2~3 min at 120~130°C
Humidity control at 25%

Warnings : The information and recommendations presented here were completed with the utmost care, but can't be extended to cover every possible case. They are intended to serve as non-binding guidelines and must be adapted to the prevailing condition. The product whether used singly or in combination with other substances, should be carried out in lab test prior to bulk production. The user needs to assume all risk and liability no matter whatsoever results are.

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