LEVELON-LCR

-Low Foaming Levelling Agent For Cotton Fiber

LEVELON-LCRis a low foaming leveling agent which shows excellent levelling effect by its good retarding properties in dyeing of cellulose-based fibers such as cotton and so on with reactive and direct dyestuffs.

◈ **SPECIFICATION**	
*** APPEARANCE**	Yellowish Liquid
*** IONIC NATURE**	Anionic
*** pH (1% aq. Sol'n)**	8.0 ± 1.0
*** SP.GR(at 25°C)**	1.05 ± 0.05
*** SOLID CONTENT(%)**	25 ± 2
*** SOLUBILITY**	Easily soluble in warm and cold water.
*** STORAGE STABILITY**	Min. 1 year under cool and dry conditions when stored in original sealed, packaging.
*** COMPATABILITY**	Compatible with anionic and nonionic materials.
◈ **FEATURES**	1) **LEVELON-LCR** can prevent dyeing spots from causing, because it displays excellent leveling efficiency during dyeing with reactive dyestuff or direct dyestuff for cotton and it allows you to obtain product of uniform color. 2) **LEVELON-LCR** allows to obtain clear product even when water containing metal of a small quantity is used due to its good hard water resistance. 3) **LEVELON-LCR** has good stability to an alkali agent such as NaOH or salts such as Na_2SO_4 and so on. 4) **LEVELON-LCR** can be applied to 1 bath dyeing of cotton knit and scouring dyeing of reactive and direct dyestuffs. 5) Because **LEVELON-LCR** has a low foaming property, it doesn't need to use an antifoaming agent. 6) It is environmental-friendly product as APEO-free and NPEO-free.
◈ **APPLICATION FIBERS**	Suitable for Cellulose-based fibers such as cotton, etc.
◈ **HOW TO USE**	Recommended use levels are 0.5~2%(o.w.f) according to kinds of dyed materials, kinds of dyestuffs, concentration of dyestuffs and dyeing methods.

Process	Amount Required	Remarks
Dyeing with reactive dyestuff	1 - 2 % o.w.f	
Dyeing with direct dyestuff	0.5 -2 % o.w.f	

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◈ **RECOMMENDED RECIPE FOR DYEING COTTON WITH REACTIVE DYESTUFF**

1) Example of dyeing recipe

· Diamira Black B	: 4.5 % (o.w.f)
· Diamira Yellow GNL	: 0.15 % (o.w.f)
· Diamira Red BD	: 0.3 % (o.w.f)
· Na_2SO_4	: 50 g/L
· Na_2CO_3	: 15 g/L
· **LEVELON-LCR**	: 1-2 % (o.w.f)

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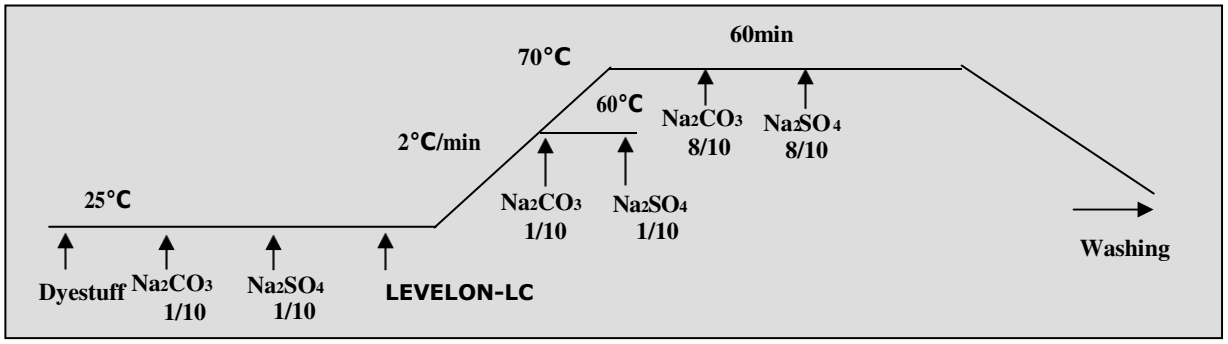
※ The bath ratio 1:20 : 1:50

2) Dyeing diagram with reactive dyestuff



3) Amount required of Na_2SO_4 and Na_2CO_3 according to quantity of dyestuff

Agents \ Quantity of dyestuff	0.5% (o.w.f)	0.5~1.0% (o.w.f)	1.0~3.0% (o.w.f)	Above 3.0% (o.w.f)
Na_2SO_4	50g/L	60g/L	70g/L	70g/L
Na_2CO_3	10g/L	12g/L	15g/L	20g/L
LEVELON-LCR	1-2%(o.w.f)	1-2%(o.w.f)	1-2%(o.w.f)	1-2%(o.w.f)

※ **Notice**

1) Separately add Na_2SO_4 and Na_2CO_3 over 15 min, and then wait for 5 min on every stage.

◈ RECOMMENDED RECIPE FOR DYEING ON COTTON WITH DIRECT DYESTUFF

1) Dyeing diagram with direct dyestuff

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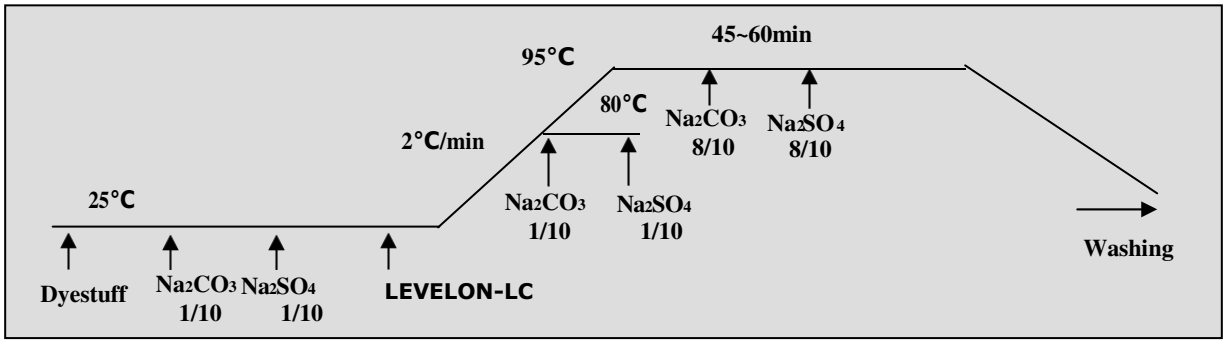

2) Amount required of Na_2SO_4 and Na_2CO_3 according to quantity of dyestuff

Color / Agents	Light color	Middle color	Dark color
Na_2SO_4	10 g/L	20-30 g/L	30-40 g/L
Na_2CO_3	0.5 g/L	1 g/L	2 g/L
LEVELON-LC	0.5-1%(o.w.f)	1%(o.w.f)	1%(o.w.f)

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3) Notice

1) Separately add Na_2SO_4 and Na_2CO_3 over 15 min, and then wait for 5 min on every stage.
2) It is advisable not to use NaCl and Na_2CO_3.
   But it depends on kinds of dyestuffs.
3) Dyeing exhaustion ratio can be increased if you add NaCl of 2g/L when dyestuff liquor remains even after dyeing.

◈ **PACKAGE**

120 Kgs NET IN DRUMS.

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