



PRODUCT LITERATURE **ECOGUARD-EF**

Product Information

Ecoguard-EF is a fluorine free speciality product for water repellency and rainproofing for cellulosic and its blends. Ecoguard-EF gives best results on 100% cellulosic fabrics with spray rating of 90-100. The performance of Ecoguard-EF is very close to C6 fluoro chemicals in terms of water repellency and durability. It imparts sewability and also provides better resistance to abrasion and tear.

Key Features & Benefits

Key features -----	Benefits -----
Fluorine free	Fulfills requirement of leading retailers viz. M&S and H&M
Performance	Close to C6 fluoro chemicals in terms of water repellency and durability
Durable	Withstands multiple home launderings
Handle and breathability	soft handle and ideal for outdoor wear
Cost effective	Economical

General Characteristics

Physical appearance	: Off white liquid
Ionic nature	: Nonionic to weakly cationic
pH of 1% solution	: 5 +/- 1
Miscibility	: Miscible with water
Compatibility	: Compatible with cationic and nonionic products
Stability	: Stable to dilute acids and dilute alkalies

Application

Padding Process -----

Dosage	: 40-100 g/l - Cellulosic fabric
	: 60-120 g/l - Polyester and blends (depending on requirement)



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Pick-up : 65-70%
Bath pH : 6.0-7.0
Drying : 120 deg.C, 2 min.
Curing* : 145-150 deg.C, 3 min. and 170 deg.C for 40 sec.

* In case of polyester, at maximum pick up, curing at temperature 145-150 deg.C gives better spray rating.

* In case of polyester and P/W fabric it is recommended to wash fabric with 0.5-1 g/l Celldet-R (Non-ionic wetting agent) before finishing.

Exhaust process for cotton fabrics

Dosage : 4-10%
Bath pH : 6.0 - 7.0
Bath Temp. : R.T. to 40 deg.C, (1 deg.C/min.)
Time : 30-40 min. at 40 deg.C
Drying/Curing: 110 deg.C, 3 min. / 150 deg.C, 3 min. OR
170 deg.C for 40 sec.

Note:

- Preliminary trials are recommended before bulk processing.
- To get very good results with Ecoguard-EF, pick up should be more than 70%
- The curing temperature should be 160 deg.C and above.
- If curing temperature 160 deg.C and above cannot be maintained then minimum 145 deg.C temperature for curing is recommended.
- If results are not upto the mark, then re-curing will help to get better results.
- Ecoguard-EF is suitable with Deca based FR products but it is not to be used with phosphorous based and APP (Ammonium Phosphophate) based FR products.
- Before finishing with Ecoguard-EF, it is better that fabric is not hot but cooled down.
- Addition of Saraline-FI along with Ecoguard-EF will stabilize the bath and which in turn will minimize roller build-up if any.



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Precautions

Storage : Store in cool, ventilated shed away from heat and direct sunlight. Storage temperature should not exceed 35 deg C. Close lids firmly to avoid contact with air and moisture.

Shelf Life : 9 months from the date of manufacturing, if stored under controlled conditions.

[The above information is given in good faith and is without warranty]
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