

KAYKAY CYANO CHEMICALS PRIVATE LIMITED

Technical Leaflet

Ultrashine RFR Liquid FLUORESCENT BRIGHTNER FOR POLYSTER FIBERS AND THEIR BLENDS



ULTRASHINE RFR LIQUID

Nature	Strylbenzene derivative, nonionic.
Storage	When stored correctly, in sealed containers, ULTRASHINE RFR LIQUID has a shelf life of up to 24 months. The dispersion should always be well stirred before removal from the containers.
Properties	Yellowish dispersion. The White effects produced are more or less reddish/bluish in tone, depending on the amount applied. Miscible with cold water in all proportions. Solutions of the product, and fabric that been padded and dried but not fixed, must be protected from light.
	Stable in reductive bleaching liquors and in those, which contain hydrogen peroxide or sodium hypochlorite. Because of its high yield, ULTRASHINE RFR LIQUID is extremely economical. Even small amounts produce brilliant white effects of a high standard. In the exhaust process, at the boil, it is necessary to use a carrier.
	The product is less suitable for brightening CA, CT and PA.

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Application	
Guideline recipes	
HT Process	0.1 – 0.5% ULTRASHINE RFR LIQUID 0.5-1 g/1 Dispersing Agent pH 4.5-5.5 (acetic Acid) Liquor ratio, 5:1 to 20:1 Starting temperature: 500-600 C Heat up to 1300 C in min 30-45 min at 1300 C The use of dispersing Agent is particularly necessary in the fluorescent brightening of wound packages.
Carrier Process	0.1-0.5% ULTRASHINE RFR LIQUID X % Carrier, as recommended by the manufacturer 0.5-1 g/1 Dispersing Agent pH 4.5-5.5 (acetic acid) Liquor ratio, 10:1 to 20:1 Temperature: 98-1050 C Time: 45-60 min
Thermosol process, Two-stage drying and fixation	 0.5-5 g/1 ULTRASHINE RFR LIQUID Liquor pick-up: approx. 60-70% Dry: approx. 120 C Thermosol: 180-2000 C Time: 30-15 s The fixation conditions depend on the fabric construction. Tightly woven and relatively heavy qualities require longer fixation times or higher fixation temperatures than lightweight, open materials. The padded and dried fabric should be protected from prolonged exposure to light, because the unfixed fluorescent brightener is sensitive to light.



Single-stage Drying and Fixation	In this procedure, the equipment used has a considerable influence on the fixation time and temperature; for this reason, conditions based on experience are more reliable than general recommendations.
	In cases of doubt, it is advisable to carry out preliminary trials. The amount of ULTRASHINE RFR LIQUID used is the same as in the two-stage drying and fixation process.
Curing Process	ULTRASHINE RFR LIQUID can also be fixed under the conditions provided by resin finishing and other finishing treatments.
Fixation Process for the Fluorescent Brightening of Print grounds	The fluorescent brightening of print grounds is frequently carried out in conjunction with the thermosol process.

Knit goods produced from texturized PES are also brightened by the HT process (eg. Data concerning the thermosol and HT processes). Under the fixation conditions Employed in textile printing. White effects produced with ULTRASHINE RFR LIQUID Behave as follows:

Printing with disperse dyes:

Medium	Temperature	Time	White Effect
HT steam	160° -170° C	8-10 min	No impairment
Hot Air	200° C	6 min	No impairment

Printing with pigment dyes:

Medium	Temperature	Time	White Effect
HT steam	160°C	3 min	No impairment
Hot Air	175° C	6 min	No impairment

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Fastness Properties:

The following fastness data are applicable for PES with an optimum standard of white, and refer to the change in the White effect.

Fastness to:	ULTRASHINE RFR LIQUID
Light (Xenotest) DIN 54 004	5-6
Washing at 40° C DIN 54 014	5
Washing at 60° C DIN 54 010	5
Seawater DIN 54 007	5
Perspiration	5
DIN 54 020 Alkaline	
Dry Cleaning Din 54 024	5
Dry heat pleating and	5
Dry heat setting 180° C	
DIN 54 060	
Dry heat pleating and	4-5
Dry heat setting 210° C	
DIN 54 060	
Oxides of Nitrogen DIN 54 024 (E)	5

For More Information:

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