

LUMINOPHORE BYB 400%

(A shaded high substantive fluorescent whitening agent for cotton and other regenerated cellulosic fibres)

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Uses

Shaded fluorescent whitening agent with high substantivity for cellulosic fibres

Characteristics	Benefits
High affinity product	Highly suitable for exhaust application, excellent wash fastness even at high temperatures
Very high bath exhaustion	Very low waste water pollution
Excellent build up	Highly brilliant whiteness
Moderate stability to peroxide bleach	Possibility to combine application with hydrogen peroxide bleaching

Properties

Chemical character:	Stilbene derivative
Ionic character:	Anionic
Appearance:	Bluish yellow to bluish green fine powder
Storage stability:	Luminophore BYB 400 % is stable up to 1 year when properly stored in closed containers at 20°C.
Ecology/Toxicology:	The usual hygiene and safety rules for handling chemicals must be observed in storage, handling and use. Product must not be swallowed. For further information please consult the existing safety data sheet.

Stability

pH Stability	7 – 12
Hard water	Up to 20° German hardness

Electrolytes	Very good
Peroxide bleach	Moderate
Reductive bleach	Not stable
Chorite bleach	Not stable
Chlorine bleach	Not stable
Alkali	Very good
Acid	Low

Fastness Properties

CEL

Light		ISO 105-B02	3 - 4
	40 °C	ISO 105-C06/A1S	5
Washing	60 °C	ISO 105-C06/C1S	5
	95 °C	ISO 105-C06/E2S	4 – 5
Perspiration	alkaline	ISO 105-E04	5
	acid		5
Dry heat	30 s / 180 °C	ISO 105-P01	5

Application

Cellulosic fibres

Exhaust application: From neutral or alkaline baths without or - particularly for regenerated cellulose – with electrolyte. Preferred application is in a separate bath after the alkaline peroxide bleach

Dissolving / Diluting:

Paste the whitening agent with equal amount of cold water to make a smooth paste and add required amount of hot water (70-80°C) under constant stirring to dissolve completely. Finally filter the solution through a filter cloth.

Stock solutions should be kept away from light.

Required amount of

LUMINOPHORE BYB 400%

Exhaust application 0.5 – 1.0%

Since the shading dyes are not stable to highly alkaline conditions to get best results it is advisable to add the whitening agent in the hot wash bath after the alkaline scouring/bleaching treatment to realize the full value of the tint.

Leveling/stripping

1 – 2 g/l Strong dispersing agent e.g. Setamol WS (BASF)

Treat for 45 - 60minutes at 80 - 90°C

To prevent subsequent yellowing, improve the whiteness and make it brighter, hydrogen peroxide should be added. Re-whitening can be carried out with LUMINOPHORE BYB 400 % or other products in the LUMINOPHORE range which are suitable for cellulosic fibers.

Notes

Heavy metal ions may adversely affect the performance of the fluorescent brightener which can be avoided by using suitable chelating agents.

Do not use cationic products along with the brightener.

Attention

Our technical data sheets provide directions for the application possibilities of our products. Our recommendations are in line with our present state of knowledge and do not provide any guarantee. Therefore initial internal bulk trials are absolutely necessary and are at user's sole responsibility. The manufacturer is not liable for damages due to improper application or application against our explicit recommendations.

Statutory provisions and standard regulations must be observed when handling processing agents. For additional detailed information please refer to the product specific safety data sheet.

Contact

United Ventures,
53, Siddhivinayak, Sp-19/20,
N.S. Road No. 7,
JVPD Scheme,
Vile Parle (W),
Mumbai 400 049, INDIA.
Tel. No. +91-22-26701144 /+91-22-2670 1155
Fax : +91 22 4276 2223
Email : ventures.united@gmail.com