GENSCENT OB Fluorescent Whitening Agent

Characterization

GENSCENT OB is a fluorescent whitening agent that provides: brilliant bluish whitening effects, excellent heat resistance, high chemical stability, good compatibility in a wide range of resins

Chemical Name 2,5-thiophenediylbis (5-tert-butyl-1,3-benzoxazole)
Molecular Weight: 430.6
CAS NO. 7128-64-5

Physical properties (typical values)

Appearance: yellow powder
Melting point: 200° C
Solubility (g/100 g solution)at 20° C:

Acetone	0.5
Chloroform	14
Dimethylformamide	0.8
Dioxane	2
n-Hexane	0.2
Methanol	≦0.1
Methylethylketone	1.3
Xylene	5
Water	≦0.01

Application

GENSCENT OB is recommended for applications such as:
white and pastel tone paints where it intensifies the degree of whiteness
clear coats and overprint varnishes where it is used to mask the yellowish self color and also to intensify the brilliance of white and colored base coats
primer and/or topcoats where it is used as marker to identify voids, holidays and uneven coverage
black and blue printing inks to increase their deep tone
printing inks for quick identification, security and safeguard against forgerie (i.e.banknote), packaging inks as promotional tool or as tracer for packaging lines manufacture of fluorescent pigments/dyestuffs to reinforce the brightness of certain shades, particularly blue tones
thermal dye diffusion paper to enhance paper whiteness
film base for photographic paper

中国上海市松江区泗宝路 88 号三湘广场 1407 室 电话：86 21 3782 9942 传真：86 21 3782 9946
Rm 1407 Sanxiang Plaza 88 Sibao Road Songjiang Shanghai, China Tel: 86 21 3782 9942 Fax: 86 21 3782 9946

If GENSCENT OB is used in a pigmented system, the pigment should be selected with care.. The pverall performance could be enhanced if the absorption spectrum of the pigment provides an open window in the near UV for the fluorescent whitening agent to function.
As known from other fluorescent whitening agents, this product class exhibits a limited light fastness. Consequently GENSCENT OB might lead to negative effects, such as yellowing of the system.

GENSCENT OB provides the maximal whitening effect when dissolved in the systems matrix. The amount of GENSCENT OB required for optimum performance should be determined in trials covering a concentration range. It should be noted that overdosing of GENSCENT OB might lead to negative effects, such as yellowing of the system.

Recommended concentrations

Clear coats and overprint varnishes	0.02-0.1%	GENSCENT OB
	(Concentrations are based on weight % of binder solids.)	
Marker in primers	2.0-4.0 %	GENSCENT OB
	(Concentrations are based on weight % of binder solids.)	
White coatings	0.5-5 %	GENSCENT OB
	(Concentrations are based on weight % of binder solids.)	

Safety & Handling GENSCENT OB should be handled in accordance with good industrial Practice. Detailed information is provided in the Safety Data Sheet

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