Cellulose Acetate Butyrate Colorants for Solvent-Based Coatings

Color Solutions

Chroma-Chem® CB/CBX

General Information

The CB and CBX Series are based on a Cellulose Acetate Butyrate (CAB) resin. The CBX Series are dry chips while the CB Series are solvent-based letdowns. These products are designed to provide colorants with excellent color characteristics in coatings that benefit from the use of CAB-based colorants.

Key Benefits

The Cellulose Acetate Butyrate (CAB) colorants and chips are formulated to provide excellent performance in various coatings systems. Vibrantz Technologies produces the CAB chips using a process that ensures optimal development. The CAB chips can be let down in various solvents or resins based on the customer's requirements.

Our processing method produces very jet blacks and highly transparent colors. Primary applications include automotive refinish or automotive OEM coatings. These colorants can also be used in wood coatings utilizing CAB resins. In addition, these colorants can be used wherever a highly developed CAB colorants is required.

To utilize our CBX products, please view our "Cellulose Acetate Butyrate Dry Chip Processing" application sheet for starting-point processing information.


AUTOMOTIVE REFINISH


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WOOD

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Properties

The CB and CBX Series colorants are formulated with a pigment loading that ensures good strength and transparency in automotive coatings. The CB Series colorants are formulated with a viscosity profile to ensure in-can stability of the masstone colors.

The tint strength of these colorants is controlled by weight to ± 5% to ensure optimal tinting performance for in-plant tinting. The color difference is controlled to specification ranges that are set based on human perception of various color spaces.

Applications

The CB and CBX Series are formulated for use in many industrial coatings including, but not limited to automotive OEM, automotive refinish, piano, and wood coatings.

Compatibility

The CB and CBX Series colorants are compatible with a solvent-based coatings usually based on a mixture of aromatic hydrocarbons and ester or ketones. The CBX chips can be dispersed in a liquid matrix containing solvents, additives or resins. Color control additives are recommended to be incorporated into the base prior to colorant addition.

Shelf Life

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Containers should be tightly sealed when not in use. Repacking the colorant into a smaller container should be considered if the colorant level in the container is less than 20% of the original amount and will be stored for an extended period of time.

Shelf life on the CB and CBX Series colorants is two years from the date of manufacture in unopened containers.

Product Code	Description	CI Name	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC [a]	Pigment Lightfastness		Pigment Resistance	
			X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.		g/L	Mass	Tint	Acid	Alkali
CB-02285*	CB Black	Black 7	3.5	1.7	8.4	6.6	88.1	91.7	0.91	801	N	N	N	N
CBX-02736	Jet Black CAB	Black 7	29.5	21.5	70.5	78.5	0.0	0.0	1.31	0	N	N	N	N
CB-20846*	CAB Black Dispersion	Black 7	4.5	2.3	10.9	8.9	84.6	88.8	0.94	798	N	N	N	N
CBX-20939*	CAB Black Chips	Black 7	29.0	20.9	71.0	79.1	0.0	0.0	1.30	0	N	N	N	N
CB-30381*	CAB Blue	Blue 15:1	9.8	5.3	13.6	11.5	76.6	83.2	0.91	734	N	N	N	N
CBX-70045	EDS Red 202 CAB Chip	Red 202	45.7	38.8	54.3	61.2	0.0	0.0	1.36	0	N	N	N	N

[a] Expected values based on formulation
* Contains phthalate plasticizer

Lightfastness and Resistance Key			
N	no bleed/discoloration	*	no Florida data, only Fadeometer
S	slight	**	no data
A	appreciable		

Lightfastness and Resistance information is provide for guidance purposes only.
Source: NPIRI Raw Materials Data Handbook Volume 4 (© 2000)