

Pigment Dispersions for Polyaspartic Coatings

Color Solutions

Chroma-Chem® DAB MC

General Information

The DAB MC Series colorants have been formulated for use in polyaspartic coatings. Polyaspartic coatings are widely used for concrete protection and have the ability to be formulated with a range of pot-life and dry times.

Key benefits

The DAB MC Series pigment dispersions for polyaspartic applications consist of organic and inorganic pigments milled in a blend of amine-functional resins. The dispersing resins used in each colorant formulation are a blend of polyaspartic resins. The ratio of resins is designed to provide the coatings formulator with the latitude to adjust the pot-life of their coating and maintain the desired pot-life when the coating is tinted with the DAB MC Series colorants.

Moisture will affect the long-term stability of any polyaspartic coating. If moisture is not controlled in the coating system, the coating will begin to cure and will become unusable. The DAB MC Series colorants are formulated using a proprietary component to absorb residual moisture from the colorants. The component is at a level to control moisture in the colorant. It is advisable to formulate the coatings base with minimal amounts of moisture by using an in-situ or mechanical means to eliminate moisture from the coating. The component used to absorb residual moisture is considered a volatile organic compound (VOC). Therefore, these colorants contain a low level of VOC's.



Properties

The DAB MC Series colorants are formulated at maximum pigment loading to ensure minimal effects on the final coating properties. In addition, the line offers the coatings formulator a product line with low VOC levels, excellent pigment development, and good rheological characteristics.

The tint strength of these colorants is controlled by weight to +/- 5% to ensure optimal in-plant tinting performance. Color difference is also controlled to ensure lot-to-lot consistency.

Applications

The DAB MC Series is formulated for use in polyaspartic industrial coatings including, but not limited to, concrete protective top coats, industrial maintenance paints, marine, wood, and other high performance protective coatings.

Compatibility

The DAB MC colorants are compatible with most polyaspartic coating systems. They are formulated to provide excellent color control and in-can stability when used in polyaspartic coatings. Tinting with the DAB MC colorants may affect the pot life of very fast or very slow systems. In most other polyaspartic coatings, there should be minimal affect on pot life.

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 with a dry nitrogen blanket 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.

The shelf life on the DAB MC Series colorants in unopened containers is one year from the date of manufacture.

Product Code	Description	Canister Code	CI Name	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
				X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
9429960	HS Black D21	Black 7	1.19	18.7	41.1	30.3	359	18.3	38.8	2.12	<10	N	N	N	N
9421863	Yellow Oxide D22	Yellow 42	1.75	57.1	23	199	347	59.1	66.4	1.12	<10	S	S	N	N
9427262	Blue D23	Blue 15:4	1.07	17.5	46.4	36.1	386	53.9	61.3	1.13	<10	N	**	N	N
9425502	Green D24	Green 7	1.1	18.9	42.8	38.3	420	52.6	61.3	1.16	<10	S	S	N	N
9420061	White D25	White 6	2.07	69	14.7	16.1	333	47.0	55.0	1.17	<10	N	N	N	N
9420925	Orange D26	Orange 36	1.1	23.7	43.8	32.5	355	33.3	54.4	1.63	<10	N	N	N	N
9422802	Golden Yellow D28	Brown 24	2.07	67.6	17.6	14.7	304	47.0	65.2	1.39	<10	N	N	N	N
9429451	Bordeaux D29	Violet 19	1.06	16.9	46	35.6	379	31.6	54.0	1.70	<10	N	N	N	N
9427265	Blue D30	Blue 15:6	1.07	25	29.8	45.2	485	44.5	56.6	1.27	<10	S	S	N	N
9421063	Red Oxide D31	Red 101	2	62.9	20.7	16.4	327	65.8	72.6	1.10	<10	N*	**	**	**
9422803	Yellow D32	Yellow 138	1.19	31.7	34.1	32.3	383	63.6	73.6	1.16	<10	N	N	N	N
9422502	Medium Yellow D33	Yellow 83	1.05	18	46.1	36	377	60.4	68.7	1.13	<10	N	N	N	N
9429955	Black D34	Black 7	1.5	3.5	29.3	22.9	343	55.1	61.5	1.12	<10	S	S	N	N
9420715	Red D35	Red 254	1.14	35.1	34	31	352	61.0	69.3	1.13	<10	N	N	N	N
9422804	HS Yellow D81	Yellow 138	1.27	44.8	23.6	31.6	400	57.6	66.0	1.14	<10	N	N	N	N

^aTypical values based on ASTM 6886

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)

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