

+ Chroma-Chem® DAB MC

Pigment Dispersions for Polyaspartic Coatings

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.

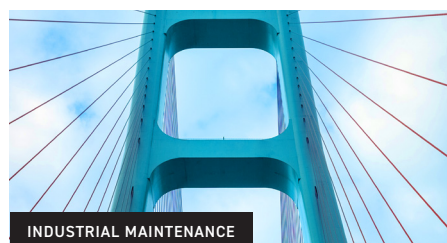
► Compatibility

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 1 year from the date of manufacture.



Product Code	Description	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
DAB-10681	MC White	White 6	61.7	29.3	36.6	67.2	1.7	3.5	1.95	32	N	N	N	N
DAB-02647	MC Black	Black 7	47.5	16.1	50.2	79.7	2.3	4.2	1.69	38	N	N	N	N
DAB-02649	MC Carbon Black	Black 7	19.0	12.1	77.5	83.5	3.5	4.4	1.15	40	N	N	N	N
DAB-30560	MC Phthalo Blue	Blue 15:2	15.8	11.0	80.8	84.9	3.4	4.1	1.11	37	N	N	N	N
DAB-30561	MC Quindo Violet BS	Violet 19	21.8	14.8	75.1	81.4	3.1	3.8	1.14	35	S	S	N	N
DAB-30664	MC Ultramarine Blue	Blue 29	30.8	16.6	66.4	79.5	2.8	3.9	1.27	35	N	N	A	N
DAB-40128	MC Burnt Umber	Brown 7	33.1	13.0	64.2	83.0	2.7	4.0	1.37	37	N	N	N	N
DAB-50262	MC Phthalo Green	Green 7	19.6	10.9	77.3	85.1	3.1	4.0	1.16	36	N	N	N	N
DAB-60239	MC Orange	Orange 34	17.1	13.4	79.6	82.7	3.3	3.9	1.10	36	A	A	N	N
DAB-70854	MC Red Oxide	Red 101	57.0	22.3	41.1	73.8	1.9	3.9	1.91	35	N	N	N	N
DAB-70855	MC Quindo Red RS	Violet 19	29.2	21.7	68.0	74.7	2.8	3.6	1.16	33	S	S	N	N
DAB-70967	MC Red 170	Red 170	20.0	16.5	76.5	79.3	3.5	4.2	1.10	38	N*	S*	N	N
DAB-80723	MC Yellow Oxide	Yellow 42	37.6	13.5	59.7	82.2	2.7	4.3	1.47	39	N	N	N	N
DAB-80724	MC Bismuth Vanadate RS	Yellow 184	63.9	30.7	34.7	66.2	1.4	3.1	2.02	28	N	N	N	N
DAB-80725	MC Yellow 151	Yellow 151	33.3	25.3	64.0	71.3	2.7	3.4	1.18	32	N*	N*	N	A

^aExpected values based on formulation

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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)



Where Art Meets Technology