

Pigment Dispersions for water-based coatings

Color Solutions

Chroma-Chem® 896

General information

Chroma-Chem 896 colorants are designed for use in a wide variety of water-based industrial coatings. The colorants are exceptional for universal tinting through depot (i.e. point-of-sale) or in-plant tinting.

Key benefits

The Chroma-Chem 896 colorants are based upon a water-reducible acrylic resin. They can be used in water-reducible and emulsion coatings in both air-dry and baking systems. This line was one of the first universal colorant systems developed for general tinting of water-based industrial coatings. Broad compatibility allows coatings manufacturers to utilize one colorant system for all water-based industrial coatings.

Each colorant contains a carefully selected and unique blend of vehicle, water, pigment and additives to yield acceptance in a wide range of aqueous coatings applications. The individual Chroma-Chem 896 colorants are formulated using pigments that provide a wide range of hues that provide good durability, light fastness and chemical resistance.



Properties

The Chroma-Chem 896 line of colorants exhibits excellent pigment development and rheological characteristics that contribute extraordinary stability to the colorant. They have little or no effect on gloss, dry time, water resistance, hardness, corrosion, foaming or other coating properties.

These colorants are controlled to a tinting strength tolerance of $\pm 2\%$ by volume and $\Delta E < 0.5$. Rheological properties of the colorants are also controlled to allow for use in volumetric tinting machines.

Applications

The Chroma-Chem 896 colorants are formulated for use in most aqueous industrial coatings including, but not limited to, general industrial finishes, general OEM, industrial maintenance and wood coatings.

Compatibility

The Chroma-Chem 896 colorants have been evaluated in a large number of maintenance and industrial coating types at 5 to 15 percent loading. Properties tested included gloss, gloss retention, hardness, adhesion, effects of over-bake and effect of acid, alkali, solvent and water resistance.

Results are consistent with the individual, typical pigment properties and good results are expected in a wide variety of coatings applications based acrylic, acrylic/PVA emulsions, water-reducible polyester/epoxy, water-soluble alkyd and urethane systems.

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 Chroma-Chem 896 colorants is 3 years for most colorants and 2 years for white and oxide colorants from the date of manufacture in unopened containers.

Product Code	Description	Canister Code	CI Name	% Pigment		% Non-Volatiles		% VOC		% Water		Specific Gravity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
				X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
896-0001	Titanium White	ATW	White 6	69.3	36.4	8.0	15.4	6.8	14.8	15.9	33.4	2.10	215	N	N	N	N
896-0401	Quinacridone Red	AQR	Violet 19	23.2	16.0	14.1	14.5	8.7	99	54.0	59.6	1.10	238	S	S	N	N
896-0410	Quinacridone Magenta		Red 122	14.8	11.0	14.2	13.9	8.3	90	62.7	66.1	1.05	257	N	N	N	N
896-0510	Mono Azo Red		Red 170	31.8	24.0	13.2	13.7	9.8	11.4	45.2	50.9	1.12	224	N*	S*	N	N
896-0901	Lead Free Orange	AUO	Orange 34/36	28.2	19.2	13.2	13.5	9.1	11.0	49.5	56.3	1.13	237	S	S	N	N
896-1001	Red Iron Oxide	ARO	Red 101	49.6	16.5	14.4	22.1	7.2	13.3	28.8	48.1	1.66	229	N	N	N	N
896-1201	Raw Sienna		Brown 7	44.2	17.1	14.3	19.6	8.2	13.0	33.3	50.3	1.50	249	N	N	N	N
896-1301	Burnt Umber	ABU	Brown 7	38.3	13.7	17.8	22.8	6.1	9.1	37.8	54.4	1.43	192	N	N	N	N
896-1801	Yellow Iron Oxide	AYO	Yellow 42	55.2	23.7	10.2	16.2	8.3	14.7	26.3	45.4	1.72	260	N	N	N	N
896-2001	Raw Umber		Brown 7	40.1	11.8	12.7	17.3	8.6	13.3	38.6	57.6	1.48	300	N	N	N	N
896-2555	LF Medium Yellow	AMY	Yellow 83/151	38.7	24.9	12.7	14.2	10.1	13.2	38.5	47.7	1.23	238	N*	N*	N	A
896-2601	Organic Yellow G/S	AOY	Yellow 175	24.6	17.2	12.1	12.5	9.7	11	53.6	59.3	1.1	263	N*	**	**	**
896-5501	Phthlo Green B/S	APG	Green 7	22.2	11.3	16.2	17.2	9.7	11.4	51.9	60.1	1.15	278	N	N	N	N
896-7201	Phthalo Blue I/S	APB	Blue 15:2	20.7	13.8	19.3	19.2	7.6	8.7	52.4	58.3	1.11	201	N	N	N	N
896-7210	Phthalo Blue G/S		Blue 15:4	24.5	16.8	16.3	16.3	8.6	10.1	50.6	56.8	1.12	223	N	N	N	N
896-8810	Carbazole Violet		Violet 23	4.8	3.6	24.1	22.7	10.9	11.6	60.2	62.1	1.03	290	N	S	N	N
896-9401	Quinacridone Violet	AGV	Violet 19	19.0	13.6	14.1	14.1	8.7	9.6	58.2	62.7	1.07	250	S	S	N	N
896-9901	Lamp Black	ALB	Black 7	21.3	13.2	15.5	15.9	8.7	10.0	54.5	60.9	1.11	248	N	N	N	N
896-9910	Hi-Temperature Black		Black 28	65.4	26.2	9.3	18.7	6.6	14.7	18.7	40.4	2.16	239	**	**	**	**
896-9940	Jet Black		Black 7	14.0	8.4	20.4	19.8	11.0	12.4	54.6	59.4	1.08	292	N	N	N	N

^aLess water

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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