

Pigment Dispersions for Solvent-Based Coatings

Color Solutions

Chroma-Chem® 824

General Information

Chroma-Chem 824 colorants are designed specifically for use in non-aqueous industrial and architectural coatings, including alkyds, wood stains and NC lacquers.

Key Benefits

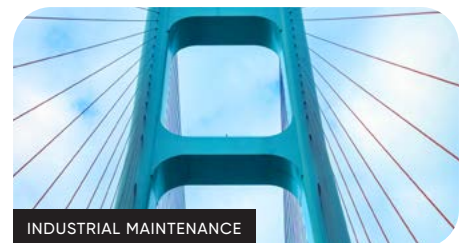
The unique, long-oil alkyd vehicle provides excellent wetting properties. Each colorant contains a carefully selected blend of vehicle, solvent, pigment and additives to provide acceptance in a wide range of solvent based applications.

The pigments selected for these colorants provide a wide-range of hues, good durability, lightfastness and chemical resistance. The solvent-type is mineral spirits, which complies with specifications of Rule-66 and Regulation 3.

Properties

The Chroma-Chem 824 colorants offer the coatings formulator a product line with a long history of excellent performance in alkyd and lacquer-based coatings. The line of colorants exhibits excellent pigment development and rheological characteristics that contribute extraordinary stability to the colorant (resistance to flocculation, settling, and syneresis).

The Chroma-Chem 824 colorants are controlled to a tinting strength tolerance of $\pm 5\%$ by weight.



Applications

The Chroma-Chem 824 colorants are formulated for use in solvent-based industrial coatings including, but not limited to, general industrial finishes, industrial maintenance, and wood coatings.

Compatibility

The Chroma-Chem 824 colorants have been evaluated in a large number of solvent coating types, ranging from 5 to 15 percent loading. Performance properties tested include gloss retention, hardness, adhesion, effects of baking (heat), drying-times and resistance to acid, alkali, solvents and water, etc.

Results are consistent with the individual, typical pigment properties, and good results are expected in a wide variety of coatings applications based on alkyd, nitrocellulose and ethyl cellulose lacquers, and polyurethane systems. It is recommend that testing under both actual and accelerated conditions occurs to determine suitability for the desired application.

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 a extended period of time.

Shelf life on the Chroma-Chem 824 colorants is three years for most colorants and two years for white and oxide pigment colorants from the date of manufacture in unopened containers.

Product Code	Description	CI Name	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC ^o g/L	Pigment Lightfastness		Pigment Resistance	
			X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
824-0082	Titanium White	White 6	62.5	29.3	27.1	47.8	10.4	22.9	1.78	186	N	N	N	N
824-0419	Lithol Rubine	Red 57:1	22.3	14.5	51.3	52.0	26.4	33.5	1.02	270	A	A	A	A
824-0440	Barium Lithol Rubine	Red 57:1	25.0	15.1	39.0	39.0	36.0	45.9	1.01	365	A	A	A	A
824-0705	Toluidine Red	Red 3	22.3	14.5	51.3	52.0	26.4	33.5	1.02	270	N	A	N	N
824-0709	Toluidine Red LT	Red 3	23.6	17.7	56.3	56.5	20.1	25.8	1.04	209	N	A	N	N
824-0924	Dinitro Orange	Orange 5	44.0	32.6	29.5	31.2	26.5	36.2	1.10	291	S	A	N	N
824-1006	Light Red Oxide	Red 101	67.0	26.0	18.2	36.2	14.8	37.8	1.86	274	N	N	N	N
824-1012	Medium Red Oxide	Red 101	54.8	19.1	32.5	54.1	12.7	26.8	1.70	218	N	N	N	N
824-1013	Venetian Red	Red 101	64.0	29.4	18.9	32.7	17.1	37.9	1.75	301	N	N	N	N
824-1018	Trans Red Oxide	Red 101	20.0	5.0	57.8	64.1	22.2	30.9	1.13	251	N	N	N	N
824-1106	Burnt Sienna	Brown 7	50.0	21.0	35.5	52.4	14.5	26.6	1.49	216	N	N	N	N
824-1302	Burnt Umber	Brown 7	59.8	27.2	23.9	39.1	16.3	33.7	1.65	269	N	N	N	N
824-1315	Burnt Umber	Brown 7	49.9	22.0	24.4	33.1	25.7	44.9	1.38	356	N	N	N	A
824-1615	Van Dyke Brown-Synthetic	Brown 7	40.0	16.7	39.4	50.1	20.6	33.2	1.29	267	N	N	N	N
824-1801	Yellow Oxide	Yellow 42	60.0	24.9	19.4	31.8	20.6	43.3	1.66	343	N	N	N	N
824-1803	Raw Sienna	Yellow 43	58.1	22.5	25.5	42.7	16.4	34.8	1.69	278	N	N	N	N
824-1804	Yellow Oxide LT	Yellow 42	60.0	24.8	21.6	36.0	18.4	39.2	1.69	311	N	N	N	N
824-1818	Trans Yellow Oxide	Yellow 42	28.0	8.5	46.3	53.5	25.7	38.0	1.18	304	N	N	N	N
824-2003	Raw Umber	Brown 7	52.0	23.1	28.2	40.4	19.8	36.5	1.47	291	N	N	N	N
824-2007	LF Medium Yellow	Yellow 74/65	34.6	21.2	38.5	41.9	26.9	36.9	1.10	295	N	A	N	N
824-2511	LF Light Yellow	Yellow 74	34.4	20.2	39.9	44.1	25.7	35.7	1.11	286	N	A	N	N
824-5503	Phthalo Green	Green 7	21.8	10.3	52.9	55.9	25.3	33.8	1.08	272	N	N	N	N
824-7209	Phthalo Blue	Blue 15	17.7	11.8	58.1	57.9	24.2	30.3	1.01	245	N	N	N	N
824-7211	Phthalo Blue	Blue 15	25.0	17.0	50.1	51.0	24.9	32.0	1.03	257	N	N	N	N
824-9923	Carbon Black	Black 7	13.0	7.3	62.6	62.5	24.4	30.2	1.01	246	N	N	N	N
824-9946	Lamp Black	Black 7	32.4	16.9	32.6	35.1	35.0	48.0	1.09	381	N	N	N	N
824-9969	Raven Black	Black 7	31.5	19.0	35.5	35.6	33.0	45.4	1.08	359	N	N	N	N
824-9976	Carbon Black	Black 7	13.7	8.0	63.2	61.9	23.1	30.1	1.05	242	N	N	N	N

^oTypical 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)

The information and recommendations contained herein are based on data we believe to be reliable and does not imply any warranty or performance guarantee, as conditions and methods of use of our products are beyond our control. The data herein is determined using Vibrantz’s standard test methods. Hazard and safety information with respect to this product is available in the applicable SDS. Vibrantz will not be liable under any circumstance for consequential or incidental damages, including but not limited to, lost profits resulting from the use of our products