

Pigment Dispersions for Solvent-Based Coatings

Color Solutions

Chroma-Chem® 866

General Information

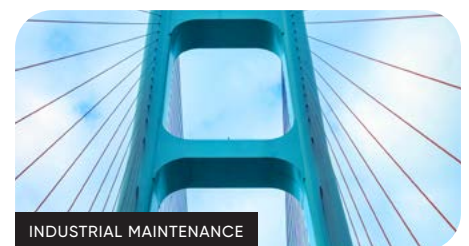
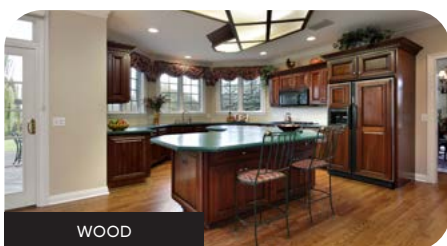
The Chroma-Chem 866 colorants are designed specifically for use in non-aqueous industrial coatings. Primary function for these colorants is in various wood coatings for OEM or Special Purpose applications.

Key Benefits

The Chroma-Chem 866 colorants are based on a unique, medium-oil alkyd vehicle that provides excellent wetting properties. Each colorant contains a carefully selected blend of vehicle, solvent, pigment and surfactants 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. We recommend testing under both actual and accelerated conditions, to determine suitability for the desired application. The solvent in these colorants is a low-aromatic, fast-evaporating, Rule 66-type solvent.

The pigments in the colorants were chosen to provide a wide range of shades. However, good durability, lightfastness and chemical resistance depend a great deal on the coatings, pigment choice, substrate and application conditions. It is highly recommended that the colorants be tested in the actual conditions of use to verify the suitability of the product.



Properties

Chroma-Chem 866 Colorants are controlled to a tinting strength tolerance of $\pm 2\%$ by volume. This close control provides accurate reproduction of the 180 color formulas in our Industrial Color System (ICS), other customized systems, and for in-plant use.

Applications

The Chroma-Chem 866 line is formulated for use in most solvent-based industrial coatings including, but not limited to, general industrial coatings, maintenance coatings, and wood coatings.

Compatibility

The Chroma-Chem 866 colorants have been evaluated in a large number of maintenance, general industrial and wood 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 systems based on alkyds, nitrocellulose, polyurethane, chlorinated rubber, and epoxy esters.

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 866 colorants is three years for most colorants and two years for white and oxide colorants from the date of manufacture in unopened containers.

Product Code	Description	Can-ister Code	CI Name	% Pigment		% Non-Vol-atiles		% Volatiles		Spe-cific Grav-ity	VOC ^o g/L	Pigment Lightfastness		Pigment Resistance	
				X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
866-0018	Titanium White	AC	White 6	62.0	279	24.0	40.3	14.0	31.8	1.79	251	N	N	N	N
866-0333	Lithol Rubine		Red 52:2	12.1	7.3	54.8	50.4	33.1	42.3	1.00	329	S	A	A	A
866-0487	Quinacridone Red	AD	Violet 19	10.4	6.6	62.3	58.5	27.3	34.9	1.00	274	S	S	N	N
866-0488	Quinacridone Magenta	Z	Red 122	11.8	7.7	50.6	45.5	37.6	46.8	0.98	366	N	N	N	N
866-0505	Organic Red		Red 170	31.2	22.9	34.8	32.9	34.0	44.2	1.03	350	N*	S*	N	N
866-0533	BON Red		Red 48:4	18.0	10.6	44.4	41.7	37.6	47.7	1.00	376	A	A	S	A
866-0979	L/F Medium Orange	YX	Red 188 / Yellow 42	23.6	14.6	50.9	50.5	25.5	34.9	1.07	274	N	S	N	N
866-1020	Transparent Red Oxide		Red 101	30.6	7.4	45.0	53.1	24.4	39.5	1.26	309	N	N	N	N
866-1045	Red Iron Oxide	V	Red 101	54.8	19.0	31.0	50.1	14.2	30.9	1.73	242	N	N	N	N
866-1120	Burnt Sienna		Brown 7	57.0	28.5	24.8	35.6	18.2	35.9	1.55	283	N	N	N	N
866-1309	Raw Umber		Brown 7	40.2	17.1	42.0	52.5	17.8	30.4	1.34	238	N	N	N	N
866-1313	Burnt Umber	T	Brown 7	41.0	14.3	39.7	51.7	19.3	34.0	1.39	269	N	N	N	N
866-1520	Transparent Brown Oxide		Brown 7	30.7	8.7	41.7	48.0	27.6	43.3	1.23	339	N	N	N	N
866-1615	Van Dyke Brown		Brown 9	30.5	17.6	38.9	39.2	30.6	43.2	1.11	339	N	N	N	N
866-1720	Semi Transparent Gold		Yellow 42/Brown 7 / Red 101	31.8	10.1	44.6	52.1	23.6	37.8	1.25	295	N	N	N	N
866-1810	Yellow Iron Oxide	Q	Yellow 42	50.2	19.2	30.2	42.8	19.6	38.0	1.53	299	N	N	N	N
866-1820	Transparent Yellow Oxide		Yellow 42	32.1	10.6	44.9	52.6	23.0	36.8	1.25	288	N	N	N	N
866-2564	Perma-Cal Yellow		Yellow 97	21.5	15.8	52.2	49.6	26.3	34.6	1.03	272	S	S	N	N
866-2825	L/F Organic Yellow	MX	Yellow 138	15.4	8.5	53.3	50.8	31.3	40.7	1.03	324	**	**	N	N
866-5511	Phthalo Green	R	Green 7	25.3	12.5	26.0	24.7	48.7	62.8	1.02	497	N	N	N	N
866-7214	Phthalo Blue	U	Blue 15:2	17.0	9.6	50.6	48.1	32.4	42.3	1.03	333	N	N	N	N
866-8895	Purple	AE	Violet 23	14.2	9.5	51.0	47.0	34.8	43.5	0.98	342	N	N	N	N
866-9494	Quinacridone Violet	AA	Violet 19	16.5	10.4	43.6	39.9	39.9	49.7	0.98	392	S	S	N	N
866-9907	Lamp Black	N	Black 7	29.1	17.6	43.0	44.1	27.9	38.3	1.08	302	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)

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