

+ Chroma-Chem® 850

Pigment Dispersions for Reactive Coatings

Chroma-Chem® 850 colorants are designed specifically for use in high performance industrial coatings. These colorants are based on an unique hydroxyl-functional, unsaturated-polyester vehicle.

► Key Benefits

The CHROMA-CHEM® 850 colorants are based on a low molecular weight, unsaturated polyester resin formulated for unsaturated polyester, UV, and epoxy floor coatings. These colorants do not contain any added VOC and are designed for VOC containing and VOC-free coatings.

Pigment selection criteria includes: lightfastness, chemical resistance, thermal properties, and compatibility with peroxide-catalyst curing systems. We recommend testing under both actual and accelerated conditions, to determine suitability for the desired application.

► Properties

Chroma-Chem® 850 colorants are free-flowing liquids, despite the high pigment loads that would normally produce extremely viscous concentrates. They are volumetrically dispensable on a batch or continuous basis, such as automatic metering. Even at high-load levels (16 oz./gal), the chemical and physical properties of the system to which they are added are not compromised when tested for water boil, hardness, cure rate, and shrinkage.

The CHROMA-CHEM® 850 colorants are controlled to a tinting strength tolerance of $\pm 2\%$ by volume. Rheological properties of the colorants are also maintained to allow for use in tinting machines. This close control allows for accurate reproduction of color in our Industrial Color System or in custom systems through in-plant or metered tinting.

► Applications

The CHROMA-CHEM® 850 colorants are formulated for use in many non-aqueous industrial coatings including, but not limited to, coil, concrete protection, gel coats, general industrial finishes, general OEM, industrial maintenance, protective, and UV coatings.

► Compatibility

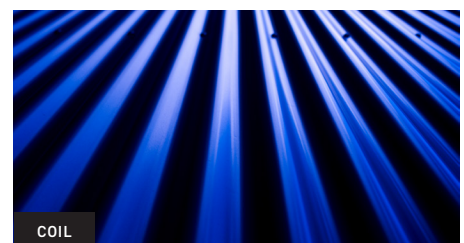
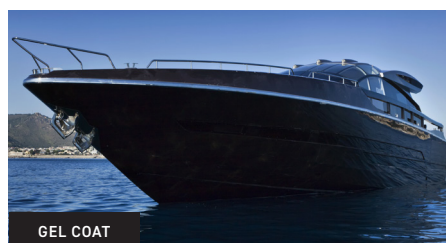
The CHROMA-CHEM® 850 colorants have been evaluated in a large number of maintenance and industrial coating types at 5 to 15 percent loading. Properties tested included gloss, gloss retention, hardness, adhesion, effects of over-bake and effect of acid, alkali, solvent and water resistance.

Results are consistent with the individual, typical pigment properties, and good results are expected in a wide variety of coatings applications based on epoxy, polyester, and polyurethane coatings. The CHROMA-CHEM® 850 colorants should be crosslinked into the final film to achieve full properties of the coating.

► 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.

Shelf life on the CHROMA-CHEM® 850 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		Specific Gravity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
				X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
850-0001	Titanium White	TW	White 6	70.0	37.1	30.0	62.9	2.23	<10	N	N	N	N
850-0040	Titanium White	PTW	White 6	60.0	27.5	40.0	72.5	1.82	<10	N	N	N	N
850-0440	Quinacridone Red	PQR	Violet 19	14.5	10.4	85.5	89.6	1.08	<10	S	S	N	N
850-0980	Lead Free Orange	PUO	Orange 34/36	24.0	15.9	76.0	84.1	1.13	<10	S	S	N	N
850-1040	Red Iron Oxide	PRO	Red 101	43.0	13.2	57.0	86.8	1.55	<10	N	N	N	N
850-1840	Yellow Iron Oxide	PYO	Yellow 42	40.0	14.2	60.0	85.8	1.46	<10	N	N	N	N
850-2555	Medium Yellow		Yellow 83/151	23.6	13.5	76.4	86.5	1.16	<10	S	S	N	N
850-2852	Organic Yellow	POY	Yellow 138	27.0	16.9	73.0	83.1	1.14	<10	**	**	N	N
850-5540	Phthalo Green	PPG	Green 7	17.0	8.3	83.0	91.7	1.14	<10	N	N	N	N
850-7240	Phthalo Blue R/S	PPB	Blue 15:2	11.3	6.6	88.7	93.4	1.09	<10	N	N	N	N
850-7340	Phthalo Blue G/S		Blue 15:3	14.0	9.1	86.0	90.9	1.09	<10	N	N	N	N
850-9902	Lamp Black	PLB	Black 7	16.5	9.9	83.5	90.1	1.12	<10	N	N	N	N
850-9940	Carbon Black		Black 7	15.0	8.9	85.0	91.1	1.10	<10	N	N	N	N

^a Expected value 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: NPRI Raw Materials Data Handbook Volume 4 (@ 2000)



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