

Pigment Dispersions for Water-Based Coatings

Color Solutions

Chroma-Chem® 895

General Information

The CHROMA-CHEM® 895 colorants have been formulated for use in most alkaline water-based coatings. The colorants are low VOC and APE-free. They are designed for use in water reducible and emulsion coatings (air-dry and bake).

Key Benefits

The CHROMA-CHEM® 895 colorants contains a carefully selected blend of vehicle, water, pigment and surfactants to provide acceptance in a wide range of waterborne applications. The effects of color flooding and floating has been minimized through the use the dispersing resin and additive packages in these formulations. The colorants will impart minimal or no effect on gloss, dry-time, water-resistance, film hardness, corrosion-resistance, and foaming.

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 industrial coating application.

Properties

The CHROMA-CHEM® 895 colorants have been formulated with a very low VOC content (less than 10 grams/liter). Rheological properties are closely controlled to allow for use in volumetric dispensing equipment.



Due to the lack of glycols, more care must be taken when handling and dispensing these colorants compared to conventional waterborne colorants. Dispensability will not be affected if the disperser system is properly maintained.

The tint strength of the colorants is controlled by volume to $\pm 2\%$ to ensure optimal tinting performance in volumetric dispensing equipment. The lot-to-lot density of the colorants are also very consistent to provide reliable in-plant tinting capabilities.

Applications

The CHROMA-CHEM® 895 line is formulated for use in most water-based industrial coatings including, but not limited to, concrete protection, general industrial finishes, general OEM, industrial maintenance, marine, protective and wood coatings.

Compatibility

The CHROMA-CHEM® 895 colorants have been evaluated in a large number of aqueous coating-types. Results are consistent with the individual, typical pigment properties, and good results are expected in a wide variety of industrial coatings applications such as two-pack polyurethanes, waterborne epoxies, wood coatings, and coatings for plastics.

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® 895 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	Can-ister Code	CI Name	% Pigment		% Non-Vol-atiles		% Volatiles		Spe-cific Grav-ity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
				X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
895-0005	Titanium White	ATW	White 6	68.6	36.4	13.1	24.8	18.3	38.8	2.12	<10	N	N	N	N
895-0405	Quinacridone Red	AQR	Violet 19	22.8	16.0	18.1	17.6	59.1	66.4	1.12	<10	S	S	N	N
895-0724	Organic Red	ARX	Red 254	23.4	16.8	22.7	21.9	53.9	61.3	1.13	<10	N	**	N	N
895-0905	Orange - Lead Free	AUO	Orange 34 / 36	29.0	20.4	18.4	18.3	52.6	61.3	1.16	<10	S	S	N	N
895-0975	Medium Orange	AOX	Orange 36	27.8	20.1	25.2	24.9	47.0	55.0	1.17	<10	N	N	N	N
895-1006	Red Oxide	ARO	Red 101	45.0	14.8	21.7	30.8	33.3	54.4	1.63	<10	N	N	N	N
895-1305	Burnt Umber	ABU	Brown 7	34.0	11.9	19.0	22.9	47.0	65.2	1.39	<10	N	N	N	N
895-1806	Yellow Oxide	AYO	Yellow 42	52.1	22.2	16.3	23.8	31.6	54.0	1.70	<10	N	N	N	N
895-2505	L/F Medium Yellow	AMY	Yellow 83 / 151	39.2	25.6	16.3	17.8	44.5	56.6	1.27	<10	S	S	N	N
895-2605	Organic Yellow	AOY	Yellow 175	21.1	15.2	13.1	12.2	65.8	72.6	1.10	<10	N*	**	**	**
895-5505	Phthalo Green	APG	Green 7	23.1	13.1	13.3	13.3	63.6	73.6	1.16	<10	N	N	N	N
895-7205	Phthalo Blue	APB	Blue 15:2	25.4	17.4	14.2	13.9	60.4	68.7	1.13	<10	N	N	N	N
895-9406	Quinacridone Violet	AQV	Violet 19	22.4	16.7	22.5	21.8	55.1	61.5	1.12	<10	S	S	N	N
895-9905	Lamp Black	ALB	Black 7	21.8	13.8	17.2	16.9	61.0	69.3	1.13	<10	N	N	N	N
895-9906	Lamp Black	ACB	Black 7	23.5	15.0	18.9	19.0	57.6	66.0	1.14	<10	N	N	N	N

^aTypical 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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