

Pigment Dispersions for Water-Based Coatings

Color Solutions

Tint-Ayd® CW/WD

General Information

Tint-Ayd CW & WD colorants are resin-free, water-based colorants designed for use in a wide variety of conventional water-based industrial coatings. The colorants are exceptional for as a universal tinting system of water-based industrial coatings. These colorants contain a mixture of water and propylene glycol.

Key Benefits

Tint-Ayd CW & WD colorants are stable, free-flowing, easy-to-use pigment concentrates designed for tinting and full pigmentation applications. The products are suitable for in-plant tinting and, in certain circumstances, can be used as volumetrically dispensed colorants.

These colorants are resin-free. They are based on a blend of anionic and nonionic additives that provide a synergistic benefit of exceptional pigment wetting and stabilization. These colorants are formulated to be thixotropic to resist pigment settling and syneresis.

The colorants are freeze-thaw stable and will not support growth of microorganisms. They are non-flaking in partially filled containers and will have minimum to no effect on gloss, dry time or early water resistance.



Properties

Tint-Ayd CW & WD colorants are recommended to be added to white, deep and clear coatings under continuous agitation at up to 16 ounces per gallon or 12.5% by weight. Higher levels should be evaluated initially in the laboratory. Ideally, coatings being tinted should have a pH range of 7-10 to avoid shock. However, coatings at a pH less than 7 are also tintable with CW & WD colorants.

The Tint-Ayd CW colorants are formulated at less than 250 g/L VOC. The Tint-Ayd WD colorants are formulated at a higher VOC levels.

Applications

The Tint-Ayd CW & WD colorants are formulated for use in most aqueous industrial coatings including, but not limited to, aerosols, concrete protection, general industrial finishes, general OEM, industrial maintenance, marine, protective and wood coatings.

Compatibility

Tint-Ayd CW & WD colorants are recommended for use in a wide variety of water reducible and emulsion coating systems such acrylic, polyurethane (PUD) dispersion, vinyl acrylic, water-reducible acrylic, vinyl acetate, water-reducible alkyd, styrene butadiene, water-reducible polyester, epoxy and water-reducible epoxy.

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 Tint-Ayd CW & WD colorants is 4 years from the date of manufacture in unopened containers.

Product Code	Description	CI Name	% Pigment		% Non-Volatiles		% Volatiles		Specific Gravity	VOC ^a g/L	Pigment Lightfastness		Pigment Resistance	
			X Wt.	X Vol.	X Wt.	X Vol.	X Wt.	X Vol.			Mass	Tint	Acid	Alkali
CW 5003	Rutile Titanium Dioxide	White 6	68.0	34.7	4.0	7.2	28.0	58.1	2.09	247	N	N	N	N
CW 5119	Carbazole Violet	Violet 23	18.0	13.3	7.0	7.5	75.0	79.2	1.07	241	N	N	N	N
CW 5228	Phthalo Blue (RS)	Blue 15:2	30.0	20.4	6.0	6.0	64.0	73.6	1.15	231	N	N	N	N
CW 5292	Phthalo Blue (GS)	Blue 15:4	30.0	21.1	5.5	5.6	64.5	73.3	1.14	245	N	N	N	N
CW 5317	Tinting Black	Black 7	33.4	21.1	8.8	13.2	57.8	65.7	1.14	209	N	N	N	N
CW 5331	Masstone Black	Black 7	30.0	19.4	8.0	8.6	62.0	72.0	1.16	250	N	N	N	N
CW 5424	High Strength Hansa Yellow	Yellow 74	35.0	27.5	4.0	4.2	61.0	68.3	1.13	232	N	A	N	N
CW 5451	Light Lemon Yellow Oxide	Yellow 42	60.0	27.4	6.0	10.5	34.0	62.1	1.84	212	N	N	N	N
CW 5454	Light Organic Yellow	Yellow 151	35.0	28.3	3.5	3.4	61.5	68.3	1.12	208	N*	N*	N	A
CW 5499	Transparent Yellow Oxide	Yellow 42	50.0	20.8	9.0	12.8	41.0	66.4	1.62	270	N	N	N	N
CW 5505	Burnt Sienna	Brown 7	50.0	23.4	7.0	9.8	43.0	66.8	1.56	239	N	N	N	N
CW 5507	Raw Umber	Brown 7	50.0	23.1	5.0	6.9	45.0	70.0	1.56	247	N	N	N	N
CW 5509	Burnt Umber	Brown 7	40.0	16.7	5.0	7.3	55.0	76.0	1.42	249	N	N	N	N
CW 5516	Van Dyke Brown	Red 101/Black 7	33.0	26.1	5.0	5.0	62.0	68.9	1.12	250	N	N	N	N
CW 5600	Transparent Red Oxide	Red 101	25.0	6.8	9.0	9.9	66.0	83.3	1.26	273	N	N	N	N
CW 5610	Red Iron Oxide Light	Red 101	60.0	22.8	6.0	11.0	34.0	66.2	1.95	243	N	N	N	N
CW 5611	Red Iron Oxide Medium	Red 101	60.0	22.8	6.0	11.0	34.0	66.2	1.96	243	N	N	N	N
CW 5619	Diarylide Orange	Orange 34	40.0	32.6	8.0	8.5	52.0	58.9	1.14	200	A	A	N	N
CW 5625	Quinacridone Red	Violet 19	25.0	17.5	5.8	5.5	69.2	77.0	1.12	250	S	S	N	N
CW 5657	Organic Scarlet	Red 188	30.0	23.6	5.0	4.9	65.0	71.5	1.11	239	N*	S*	N	N
CW 5673	Deep Organic Red	Red 170	30.0	24.2	7.0	7.3	63.0	68.5	1.09	240	N*	S*	N	N
CW 5703	Phthalo Green	Green 7	32.0	18.5	6.3	6.9	61.7	74.6	1.21	239	N	N	N	N
WD 2490	Organic Yellow-Medium	Yellow 74/65	45.0	37.0	5.0	5.1	50.0	57.9	1.15	356	N	A	N	N
WD 2681	Dinitroaniline Orange	Red 4 / Orange5	40.0	28.9	5.5	5.8	54.5	65.3	1.21	363	S	A	N	N

^aExpected values based on formulation

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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