UCD™ COLORANTS
E LINE

INTRODUCTION

The UCD™ E series of colorants is distinguished by the fact that they contain no hazardous air pollutants (HAPS) and less than 0.05 pound of Volatile Organic Compounds (VOC) per gallon. These colorants are appropriate for most water-based coating systems.

UCD E colorants are formulated with a unique proprietary acrylic resin that provides excellent pigment wetting. This feature makes possible high pigment concentrations at relatively low millbase solids levels. For the paint formulator, this means less millbase resin can be added to a paint. Also, less colorant is required in formulations that employ an E colorant as a tinter or as the entire pigment; the result is a savings in valuable inventory space.

UCD E colorants provide excellent performance through ease of incorporation and resistance to flooding/floating and flocculation. E products should not negatively affect paint physical properties.

COMPATIBILITY

E colorants should be suitable for use with a variety of waterborne systems. These include but are not limited to the following:

- acrylic/PVA emulsions
- water-reducible polyester/epoxies
- water-soluble alkyds
- urethanes
- acrylics

E colorants are also compatible with systems containing co-solvents and are not limited to use in low-VOC paint formulations.

CHEMISTRY

E pigments are 100% pure (no extenders). Tint strength is maintained within a tolerance of ±3% on a weight basis. E colorants are typically not recommended for use in volumetric dispensing systems.

Rohm and Haas uses a computer-interfaced spectrophotometer to assure lot-to-lot consistency. Moreover, stringent quality control assures that only the best raw materials are used in these colorants.

PROPERTIES

The tinting strength of the colorants is controlled to ±2% of the standard. The color difference is controlled to less than 0.8 CIELAB units with the individual color components (DA, DB, and DL) controlled to ±0.80 CIELAB units.

HANDLING AND STORAGE

Proper handling is essential to maintain good quality. It is recommended that the colorants be mixed prior to use. Due to the lack of any co-solvents, the E line colorants will dry quickly and could flake if not handling properly. 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 E line colorants is 2 years from the date of manufacture.

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Index			COMPOSITION							PIGMENT PERFORMANCE							
			% Pigment		% Vehicle Solids		% Water		Theo. Density	Lightfastness		Bleeding				Resistance	
Code	Color	Name	Wt	Vol	Wt	Vol	Wt	Vol	Lb/Gal	Mass	Tint	Oil	Spirits	Toluene	Lacquer	Acid	Alkali
1106	Titanium Dioxide	Wh 6	65.0	30.8	7.2	14.1	27.8	55.1	16.47	E	E	N	N	N	N	E	E
1507	Carbon Black	Bk 7	32.5	21.6	14.3	14.9	53.2	63.5	9.94	E	E	N	N	N	N	E	E
1530	Jet Carbon Black	Bk 7	7.0	4.3	20.5	18.7	72.5	77.0	8.85	E	E	N	N	N	N	E	E
1625	Lampblack	Bk 7	28.0	18.1	11.5	11.4	60.5	70.5	9.71	E	E	N	N	N	N	E	E
1635	Medium Color Black	Bk 7	40.0	27.5	12.5	13.7	47.5	58.8	10.32	E	E	N	N	N	N	E	E
4100	Cerulean Blue	Bl 35	65.0	30.6	7.3	13.3	27.7	56.1	16.87	E	E	N	N	N	N	E	E
4775	Ultramarine Blue	Bl 29	46.0	27.1	10.3	12.4	43.7	60.5	11.53	G	P	N	N	N	N	P	G
4820	Phthalo Blue GS	Bl 15:3	37.0	28.7	11.4	11.3	51.6	60.0	9.70	E	E	N	N	N	N	E	E
4830	Phthalo Blue RS	B1 15:2	37.0	28.3	11.3	11.2	51.7	60.5	9.74	E	E	N	N	N	N	E	E
5150	Phthalo Green BS	G 7	47.0	30.3	10.9	12.7	42.1	57.0	11.27	E	E	N	N	N	N	E	E
5166	Phthalo Green YS	G 36	47.0	25.3	9.4	11.6	43.6	63.1	12.07	E	E	N	N	N	N	E	E
5628	Novoperm Yellow	Y 139	30.0	20.0	12.5	12.9	57.5	67.1	9.73	E	E	N	N	N	N	E	G
5668	Hansa Yellow 74	Y 74	40.0	34.8	11.5	11.1	48.5	54.1	9.29	E	E	N	N	S	N	E	F
5675	Diarylide Yellow	Y 14	37.5	29.5	12.2	12.5	50.3	58.0	9.60	G	F	N	N	N	N	E	E
5696	Organic Yellow	Y 151	47.5	38.5	8.6	9.0	43.9	52.5	9.97	E	E	N	N	N	N	E	G
5721	Transparent Yellow	Y 42	28.0	10.0	14.0	15.5	57.2	70.6	10.69	E	E	N	N	N	N	E	E
5740	Oxide High-Strength Yellow	Y 83	35.0	27.5	10.8	10.7	54.2	61.8	9.49	G	G	N	N	N	S	E	E
5750	Yellow Oxide	Y 42	55.0	23.6	8.4	12.8	36.6	63.6	14.49	E	E	N	N	N	N	E	E
5762	Diarylide Yellow RS	Y 83	50.0	40.3	8.5	9.1	41.5	50.6	10.16	E	E	N	N	S	S	E	E
5767	Paliotol Yellow	Y 153	55.0	43.7	7.6	8.2	37.4	48.1	10.71	E	E	N	S	C	N	F	F-P
5797	Quinacridone Gold	O 48	18.0	13.0	13.8	12.9	68.2	74.1	9.05	E	E	N	N	N	N	E	E
5832	Raw Umber	Br 7	32.0	12.3	15.5	18.0	52.5	69.7	11.04	E	E	N	N	N	N	E	E
5861	Burnt Umber	Br 7	32.5	12.1	14.6	17.0	52.9	70.9	11.17	E	E	N	N	N	N	E	E
5891	Transparent Red Oxide	R 101	38.0	14.2	12.1	15.1	49.9	70.7	11.81	E	E	N	N	N	N	E	E
5940	DNA Orange	O 5	52.0	41.9	8.1	8.8	39.9	49.3	10.29	G	F	S	S	C	C	E	E
6002	Perinone Orange	O 43	40.0	30.0	10.0	10.4	50.0	59.6	9.93	G	G	N	N	N	N	E	E
6004	Novoperm Orange	O 36	52.0	40.8	7.8	8.6	40.2	50.6	10.47	E	G	N	N	S	N	E	E
6012	Organic Orange	O 34	52.0	44.2	8.0	8.3	40.0	47.5	9.90	G	F	N	N	S	N	E	E
6080	Red Oxide	R 101	60.0	23.9	8.6	14.8	31.4	61.3	16.27	E	E	N	N	N	N	E	E
6470	Quinacridone Magenta	R 122	30.0	23.2	12.0	11.7	58.0	65.1	9.34	E	E	N	N	N	N	E	E
7900	Naphthol Red	R 112	37.0	28.7	11.5	11.7	51.5	59.6	9.63	E	G	S	S	C	S	E	G
7942	Toluidine Red	R 3	42.3	34.4	10.5	10.6	47.2	55.0	9.70	E	F	C	C	C	C	E	E
7949	Organic Red	R 170	42.5	34.9	10.6	10.7	46.9	54.4	9.66	E	G	N	N	N	N	E	E
7975	Fast Red	R 187	30.0	23.2	13.0	12.8	57.0	64.0	9.35	E	G*	N	N	N	N	E	E
8030	Quinacridone Red	V 19	35.0	26.8	10.6	10.5	54.4	62.7	9.59	E	E	N	N	N	N	E	E
8062	Bon Red	R 48:2	33.0	24.8	11.6	11.6	55.4	63.6	9.56	G	P	S	C	N	C	F	P
8097	Red Oxide BS	R 101	60.0	23.5	9.5	15.0	30.5	61.5	16.79	E	E	N	N	N	N	E	E
8175	Benzimidazolone Red	R 175	35.0	27.1	11.5	11.6	53.5	61.3	9.55	E	G	N	N	N	N	E	E
8406	Carbozole Violet	V 23	35.0	26.5	10.5	10.5	54.5	63.0	9.62	E	E	N	N	N	N	E	E
8443	Quinacridone Violet	V 19	35.0	27.0	10.6	10.1	54.4	62.9	9.63	E	E	N	N	N	N	E	E

The performance data shown in this table are taken from the pigment suppliers' literature: E=Excellent, G=Good, F=Fair, S=Slight, C=Considerable, P=Poor, N=None