

Economical VOC free colorants for in-plant water-based applications

Chromaflo Technologies understands that paint manufacturers are seeking economical and accurate in-plant tinting solutions to provide a wide color variety for ready mix lines. A well designed in-plant system should yield a net gain in the overall manufacturing process. Whatever the required volume, the color production process needs to be fast and efficient, ensuring quick delivery times and customer satisfaction.

The technical challenges faced by the paint industry are increasingly compounded by changing environmental requirements.

Chromaflo Technologies is the leading producer of VOC free colorants in the architectural paint sector. We are expanding this industry leading knowledge to include VOC free technologies for our in-plant portfolio. Solutions for (high solid) solvent-based paints, which are still an important part of the product mix in many areas both within and outside Europe, are also available.

Application

Hydrasperse EU colorants are designed for in-plant production use. Their high color strength and consistency from batch to batch provides a good base for reproducible and economical colors. The colorant range is designed to ensure a good price/performance balance with a number of economical colorants for a lower overall tint cost.

Properties

High performance colorants are available within the Hydrasperse EU product line to satisfy even the most premium quality requirements needed for exterior use. The vast colorant selection of Hydrasperse EU contains 20 high concentrated colorants ensuring that a wide color space is covered. Hydrasperse EU colorants have a VOC content (<1 gram/liter) and an effective APE free surfactant system. All in-plant colorants are controlled both gravimetrically and volumetrically for factory level precision. Although these colorants are designed for in-plant use, our extensive experience allows us to guarantee that they satisfy the stricter POS requirements for color strength and shade.

Our services

As a frontrunner in integrating tinting solutions, Chromaflo Technologies provides excellent service in the set-up of your tinting systems as well as smooth colorant technology conversions. Our technical support includes:

- Assurance of colorant and base paint compatibility
- System design, optimization and pigment selection
- Color matching and database development
- Equipment compatibility and sales support

Stringent production controls and processes ensure that all colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.



HYDRASPERSE™ EU TECHNICAL DATA

Name	Color	Pigment	Pigment content of colorant [%]	Light fastness of pigment ¹		Weather resistance of pigment ²		Density of Colorant (g/ml)
				Full	Tint	Full	Tint	
EWH1 ³	White	PW 6	72	8	n/a	5	n/a	2.30
EYE4	Yellow	PY 154	33	8	8	5	5	1.15
EYE3 ³	BiVa Yellow	PY 184	58	8	8	4-5	4-5	2.28
EYE2	Yellow Ext.	PY 138	51	8	8	4-5	4	1.44
EYE1	Yellow	PY 74	51	7-8	6-7	4-5	3	1.23
EXY1 ³	Oxide Yellow	PY 42	65	8	8	5	5	2.02
EXY2 ³	Oxide Orange	PY 42	54	8	8	5	5	1.87
EBR1	Brown	PBr 24	65	8	8	5	5	2.01
EOR1	Orange	PO 74	50	7-8	6-7	4	3-4	1.25
EOR2	Orange	PO 5	45	6	5	3	2	1.28
EOR3	Orange	PY 83	42	7-8	6-7	4	3	1.31
ERE2	Red Ext.	PR 168	35	8	8	5	4-5	1.37
ERE3	Red Int.	PR 112	40	8	6	4-5	3	1.21
ERE1	Red	PR 254	40	8	8	4-5	4	1.25
ERE4	Red	PR168/ PR254	20/10	8	8	4-5	4	1.28
EXR1 ³	Oxide Red	PR 101	66	8	8	5	5	2.12
EMA1	Magenta	PR 122	29	7	7-8	4	4-5	1.12
EXR2 ³	Oxide Violet	PR 101	64	8	8	5	5	2.30
EVI1	Violet	PV 23	25	8	8	5	4	1.24
EVI2	Violet	PV 19	28	7	7-8	4	4	1.10
EBL2 ³	Ultramarine Blue	PB 29	54	8	8	4-5	4-5	1.56
EBL1	Blue	PB 15:3	44	8	8	5	4-5	1.22
EBL3	Cobalt Blue	PB 28	62	8	8	5	5	1.93
EXG1 ³	Oxide Green	PG 17	67	8	8	5	5	2.36
EGR1	Green	PG 7	50	8	8	5	4-5	1.39
EBK2 ³	Inorganic Black	PBk 11	54	8	8	5	5	1.79
EBK1	Black	PBk 7	41	8	8	5	5	1.31

The values given in the table are guidance figures only. The data is obtained from pigment suppliers, individual testing is recommended.

¹ Light fastness is measured on an eight step blue scale, where 1 = very poor light fastness, 8 = excellent light fastness.

² Weather resistance is measured on a five step gray scale, where 1 = very poor weather resistance, 5 = excellent weather resistance.

³ Colorant containing inorganic pigment(s).

Chromaflo Technologies recommends to use only colorants containing inorganic pigments in high alkaline environments and in exterior silicate or silicone based products.

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