

The premier colorant system for water-based industrial coatings

Solutions for manufacturers tinting water borne industrial coatings have been historically limited. Current and future VOC regulations are increasing the need for tinting systems that are compatible with water-based industrial coatings.

Applications

Until now, the best options have been architectural colorant systems with limited technical compatibility. These colorants have had too great an influence on the technical performance of industrial coatings, especially in 2k epoxies and polyurethanes. Traditional architectural systems are also not able to fulfill the specific pigment and fastness property needs required of industrial coatings.

Properties

Chromaflo Technologies has developed Temacolor W technology to meet the specific tinting needs of water-based industrial coatings. Colorants in the Temacolor W line contain binder with a Propylene glycol co-solvent - the VOC level in all individual colorants is 10% or less, making the VOC level of end colors no greater than 1%. The colorant additives are also APE (Alkyl Phenol Ethoxylate) free.

The pigmentation of Temacolor W is formulated to meet the high technical performance needs of water-based industrial coatings.

In addition to the high quality pigments for red and yellow which provide excellent weather, heat and chemical resistance, there are additional economical options in the Temacolor W portfolio to ensure a good price performance balance. The pigment content has been maximized to provide high opacity while minimizing the effect on paint properties and the colorant addition cost. The vast colorant selection ensures that the entire color space is covered.

Temacolor W colorants are also suitable for architectural water-based paints and are therefore universally compatible with all water-based products.

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.



TEMACOLOR™ W 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	
WX9 ³	White	PW 6	65	8	n/a	5	n/a	1.85
YZ9 ³	Yellow Opaque	PY 184	45	7-8	7-8	4-5	4-5	1.70
YH9	Yellow	PY 138	45	8	8	4-5	4	1.25
YS9	Yellow Strong	PY 74	38	7-8	6-7	4-5	3	1.15
YS8	Orange Yellow Strong	PY 83	32	7-8	6-7	4	3	1.12
YX9 ³	Oxide yellow	PY 42	55	8	8	5	5	1.75
YX8 ³	Oxide Orange	PY 42	52	8	8	5	5	1.67
YR9	Orange Yellow	PY 110	34	7	8	4-5	5	1.19
OH9	Orange	PO 73	25	8	8	4-5	4-5	1.05
OH8	Orange	PO 36	34	8	7-8	5	4-5	1.18
RS9	Red Strong	PR 112	37	8	6	4-5	3	1.15
RH9	Red	PR 254	35	8	8	4-5	4	1.19
RX9 ³	Oxide Red	PR 101	55	8	8	5	5	1.87
MH9	Magenta	PR 122	23	7	7-8	4	4-5	1.11
VH9	Violet	PV 23	6	8	8	5	4	1.06
BH9	Blue	PB 15:3	40	8	8	5	4-5	1.20
GH9	Green	PG 7	35	8	8	5	4-5	1.28
CL9	Black Weak	PBk 7	4	8	8	5	5	1.04
CH9	Black Strong	PBk 7	16	8	8	5	5	1.10

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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