The premier colorant system for water-based industrial coatings

Color Solutions

Temacolor™ W

General Information

Solutions for manufacturers tinting waterborne 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.

Application

Until now, the best options have been architectural colorant systems with limited technical compatibility. These colorants have a tremendous 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 for industrial coatings.

Properties

Vibrantz 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.

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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, Vibrantz 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.

Name	Color	Pigment	Pigment content of colorant [%]	Light Fastness of Pigment [1]		Weather Resistance of Pigment [2]		Density of Colorant (kg/m3)
				Mass	Tint	Mass	Tint	
WX9[3]	White	PW 6	65	8	N.A.	5	N.A.	1846
CL9	Black	PBk 7	4	8	8	5	5	1026
CH9	Black	PBk 7	16	8	8	5	5	1103
YX9[3]	Yellow Oxide	PY 42	55	8	8	5	5	1798
YX8[3]	Orange Oxide	PY 42	52	8	8	5	5	1691
RX9[3]	Red Oxide	PR 101	55	8	8	5	5	1891
YZ9[3]	BiVa Yellow	PY 184	45	8	8	4-5	4-5	1673
YH9	Yellow	PY 138	45	8	7-8	4-5	3-4	1210
YS9	Yellow	PY 74	38	7-8	6-7	4-5	3	1122
YS8	Orange Yellow	PY 83	32	7-8	6-7	4	3	1150
YR9	Yellow	PY 110	34	7	8	4-5	5	1187
RS9	Red	PR 112	37	8	6	4-5	3	1143
RH9	Red	PR 254	35	8	8	4-5	4	1192
MH9	Magenta	PR 122	23	7	7-8	4	4-5	1111
BH9	Blue	PB 15:3	40	8	8	5	4-5	1240
GH9	Green	PG 7	35	8	8	5	4-5	1269
VH9	Violet	PV 23	6	8	8	5	4	1058
OH9	Orange	PO 73	25	8	8	4-5	4-5	1047
OH8	Orange	PO 36	34	8	7-8	5	4-5	1226

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). Vibrantz Technologies recommends to use only colorants containing inorganic pigments in high alkaline environments and in exteriorsilicate or silicone based products.