

# Highest colorant strength for universal architectural applications

Color Solutions

## Monicolor™ C

Vibrantz Technologies' Monicolor Universal colorants offer a vast selection of colors for the architectural market. Technical specifications within the paint industry are increasingly compounded by ever-changing environmental requirements. Stricter regulations apply to all products in the colorant and paint industry. At the same time, the amount and variety of architectural products such as alkyds and latexes for interior and exterior use continue to grow.

### Application

Vibrantz Technologies' complete range of universal Monicolor colorants for architectural applications are suitable for mixing with a variety of latex paints, long oil alkyds, enamels and wood stains. Four inorganic colorants, namely, inorganic black (PBk 11), chrome oxide green (PG 17), cobalt blue (PB 28) and bismuth vanadate yellow (PY 184) have been added to extend the application areas to facade paints.

The addition of an organic NIR reflective black colorant (PBk 32) offers heat-reducing benefits in certain architectural paint applications, for instance, roofs and window frames. The organic pigment is essentially transparent to NIR radiation, resulting in the NIR radiation passing through the pigment with minor absorption. To achieve the desired solar reflectance, Monicolor C NIR should be used on a reflective substrate or formulated in combination with reflective pigments.

### Properties

The pigmentation of Monicolor colorants has been formulated to meet the performance demands of architectural paints. The range satisfies key performance requirements such as light fastness, accuracy in pastels, opacity and cost effectiveness. There are additional economical yellow and red options in the Monicolor portfolio to ensure a good price/performance ratio. Monicolor colorants ensure accuracy and reproducibility at the point-of-sale. Color and color strength are volumetrically controlled.

### Monicolor C

All Monicolor C colorants are VOC (<1 g/l) and APE free, ensuring a completely VOC free end product that meets the latest, strict environmental requirements.

### Mixed systems

Monicolor colorants are fully compatible with each other and can be used interchangeably to create a customized tinting system. The color experts at Vibrantz Technologies are at hand to create unique tinting systems that meet your needs, taking into account:

- Technical performance
- Existing POS equipment
- Required color space



- Future needs
- Budget

## 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 <sup>1</sup>		Weather Resistance of Pigment <sup>2</sup>		1288Density of Colorant (kg/m <sup>3</sup> )
				Mass	Tint	Mass	Tint	
XT <sup>3</sup>	White	PW6	65	8	N.A.	5	N.A.	2107
TT	Black	PBk 7	9	8	8	5	5	1400
TK <sup>3</sup>	Black Oxide	PBk 11	41	8	8	5	5	1593
IR	Black NIR	PBk 32	29	8	8	4	3	1137
RT <sup>3</sup>	Yellow Oxide	PY 42	55	8	8	5	5	1809
VT <sup>3</sup>	Red Oxide	PR 101	50	8	8	5	5	1937
ST <sup>3</sup>	Umber	PY 42/ PR 101/ PBk 7	35	8	8	5	5	1648
ZK <sup>3</sup>	BiVa Yellow	PY 184	50	8	8	4-5	4-5	1861
ZT	Yellow	PV 138	12	8	7-8	4-5	3-4	1296
KS	Yellow	PV 74	20	7-8	6-7	4-5	3	1334
US	Orange Yellow	PY 83	29	7-8	6-7	4	3	1228
PT	Red	PR 168	10	8	8	5	4-5	1315
RD	Red	PR 254	37	8	8	4-5	4	1312
RS	Red	PR 112	20	8	6	4-5	3	1308
MM	Magenta	PR 122	25	7	7-8	4	4-5	1097
MT	Blue	PB 15:4	7	8	8	5	4-5	1370
MK <sup>3</sup>	Cobalt Blue	PB 28	55	8	8	5	5	1819
MS	Blue HC	PB 15:3	28	8	8	5	4-5	1397
LT	Green LC	PG 36	10	8	8	5	4-5	1433
LS	Green HC	PG 7	20	8	8	5	4-5	1394
LK <sup>3</sup>	Green Oxide	PG 17	54	8	8	5	5	1953
HS	Red Violet	PV 19	13	6-7	7-8	4	4	1288
FT	Violer	PV 23	2	8	8	5	4	1366

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

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

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

<sup>3</sup> 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.

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