

Economical low VOC colorants for in-plant, solvent-based applications

Color Solutions

Solvasperse™ AK

Vibrantz 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.

Application

Specially developed for in-plant tinting, Solvasperse AK is solvent-based and low in VOCs. The range of Solvasperse AK colorants can be used to tint diverse long and medium-oil architectural alkyd paints, for use in both interior and exterior applications.

Properties

Solvasperse AK colorants are formulated with alkyd resin and aromatic-free solvents. The reduced VOC content (< 300 gram/liter) and newly approved anti-skinning agent guarantees compliance with the current EU directive, provided that the paint itself meets the requirements.

The Solvasperse AK family has 15 high concentrated colorants for optimal and economical color performance. The colorants in the Solvasperse AK family have been tested in numerous alkyd paint products. They consistently demonstrate excellent compatibility with minimal effect on properties such as gloss and drying. Two transparent iron oxide colorant options are available for wood finishing applications.

As a result of their transparent nature, the wood structure remains visible, yet important physical properties of the paint, such as weather resistance and UV barrier, are unaffected by the colorant.



All Vibrantz Technologies' 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, 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/m ³)
				Mass	Tint	Mass	Tint	
AWH1	White	PW 6	60	8	N.A.	5	N.A.	1648
ABK1	Black HC	PBk 7	40	8	8	5	5	1050
AXY1	Yellow Oxide	PY 42	55	8	8	5	5	1512
AXR1	Red Oxide	PR 101	60	8	8	5	5	1803
AYE1	Yellow	PY 74	41	7-8	6-7	4-5	3	1047
AYE2	BiVa Yellow	PY 184	53	8	8	4-5	4-5	1394
ARE1	Red	PR 254	26	8	8	4-5	4	1020
ARE2	Red	PR 112	40	8	6	4-5	3	1005
AMA1	Magenta	PR 122	20	7	7-8	4	4-5	951
ABL1	Blue	PB 15:4	25	8	8	5	4-5	999
AGR1	Green	PG 7	30	8	8	5	4-5	1016
AVI1	Violet	PV 23	21	8	8	5	4	990
AOR1	Orange	PO 67	40	8	6-7	4-5	2	1057
ATXY1	Yellow Oxide Tr.	PY 42	40	8	8	5	5	1338
ATXR1	Red Oxide Tr.	PR 101	40	8	8	5	5	1318

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.

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