CCA

COLOURANTS

Product Line Overview
Europe

HISTORY

1947

Founded by Rockcote Paint in Rockford, IL

1958

Valspar merges with Rockcote Paint

1994

Valspar acquires Engineered Polymer Solutions (EPS) resin products business

1999

CCA & EPS merge in 1999

CCA is a global supplier of colourants to the Consumer Paints and Industrial Coatings Industries. Our focus throughout our entire 71+ year history has been on developing a very broad colourant technology portfolio for both POS and OEM customers to use in Decorative and Industrial applications.

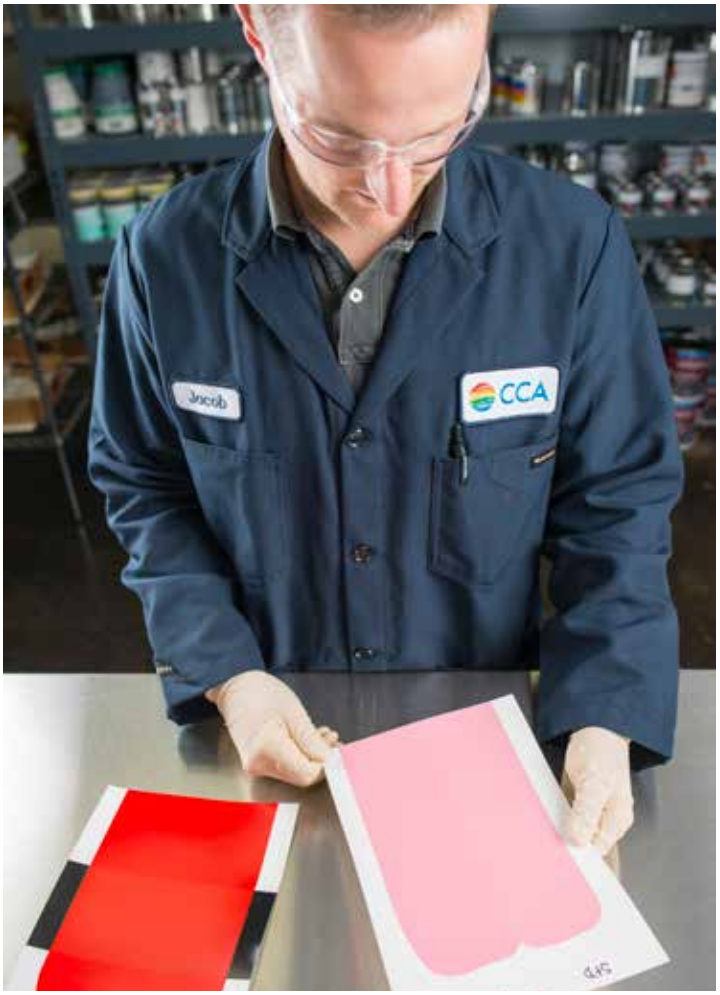
CAPABILITIES

Colourants offered to key segments of the Paint and Coatings Industry:

- Decorative
- Industrial—Coil, Wood, General Industrial, Packaging
- Specialty—Industrial Maintenance, Auto Refinish

Dedicated Colour Services Group

Our dedicated colour services group brings over 100 years of experience to the industry. They understand that making a colourant change is a great undertaking and they take pride in delivering the best and most consistent product and customer experience.



PORTFOLIO

OptiColor® XP

NovoColor® IP

NovoColor® HP II

NovoColor® II

NovoColor® SF

Decorative POS | **Decorative In-Plant** | **Industrial POS** | **Industrial In-Plant** | **Specialty**

Decorative Universal Colourants

- High strength expanded pigment options for in-plant
- Water based in-plant dispersions
- Formulated without APEO

Solventborne

Waterborne

Industrial Universal Colourants

- Highly compatible across all solvent based lines
- In-Plant water based systems for OEM Industrial lines
- High quality pigments utilized and sourced globally

TINTING SYSTEM (POS)

Aqueous: NovoColor® HP II 8600 Series

- Water-only colourant
- Formulated without APEO, glycol or formaldehyde
- Outstanding compatibility in a wide range of waterborne coating systems

Universal: NovoColor® II 8800 Series

- Compatible with water based and solvent systems
- Broad compatibility with both latex and alkyd products
- Matched to conventional colourant standards

Solvent Based: Opticolor XP® 4100 Series

- Broad compatibility, including conversion varnishes and nitrocellulose lacquers
- Formulated without APEO, glycol or formaldehyde
- Application use: Coil, Wood, Industrial, Packaging, Auto Refinish

PIGMENT PASTES (IN-PLANT USE)

Aqueous: NovoColor® IP 8500 Series

- High strength in-plant dispersions for water based decorative and industrial systems
- Wide range of pigment choices
- For General Industrial 2-coat applications, 1K and 2K systems

Aqueous: NovoColor SF SuperFine Series

- Designed for water based coatings and wood stains
- Superior lightfastness and transparency
- High degree of transparency

Solvent Based: Opticolor XP® 4100 Series

- Broad compatibility, including conversion varnishes and nitrocellulose lacquers
- Formulated without APEO, glycol or formaldehyde
- Application use: Coil, Wood, Industrial, Packaging, Auto Refinish

OPTICOLOR® XP

OptiColor XP product line consists of lightfast pigments dispersed in a unique resin system and a blend of urethane grade ester solvents. The resin is formulated to contain no free formaldehyde and has a secondary hydroxyl number of forty, which allows it to react with crosslinking systems and not act as a diluent in those systems.

Key Features

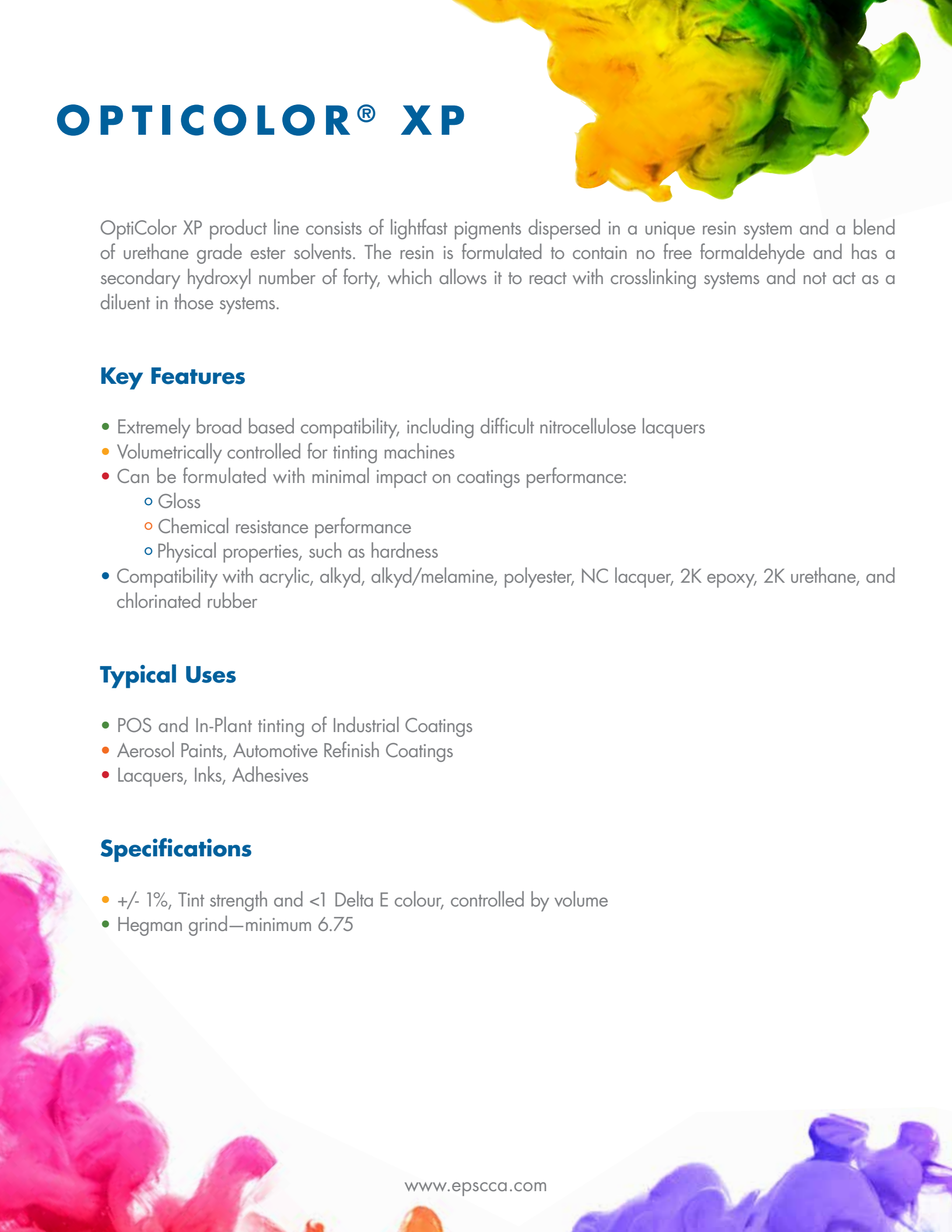
- Extremely broad based compatibility, including difficult nitrocellulose lacquers
- Volumetrically controlled for tinting machines
- Can be formulated with minimal impact on coatings performance:
  - Gloss
  - Chemical resistance performance
  - Physical properties, such as hardness
- Compatibility with acrylic, alkyd, alkyd/melamine, polyester, NC lacquer, 2K epoxy, 2K urethane, and chlorinated rubber

Typical Uses

- POS and In-Plant tinting of Industrial Coatings
- Aerosol Paints, Automotive Refinish Coatings
- Lacquers, Inks, Adhesives

Specifications

- +/- 1%, Tint strength and <1 Delta E colour, controlled by volume
- Hegman grind—minimum 6.75



OPTICOLOR®XP TECHNICAL DATA

PRODUCT NUMBER	MASS TONE	TINT	COLORANT NAME	CI PIGMENT NAME	TYPICAL PROPERTIES							
					DENSITY		%PRIME PIGMENT BY WT.	% SOLVENTS BY WT.	%TOTAL SOLIDS BY WT.	THEORETICAL VOC (g/L)*	FLASHPOINT	
					lbs/gal	g/cc					°F	°C
4100			TW Titanium White	PW-6	16,6	2,0	66,0	13,7	86,3	271	98	37
4110			OY Organic Yellow	BLEND	9,4	1,1	24,5	30,9	69,1	349	98	37
4112			MY Med Yellow Lead Free	BLEND	10,4	1,3	32,4	32,0	68,0	401	98	37
4121			PG Phthalo Green	PG-7	9,5	1,1	20,6	38,2	61,8	437	98	37
4132			PB Phthalo Blue	PB-15:2	9,1	1,1	19,7	40,5	59,5	442	98	37
4139			QV Quinacridone Violet	PV-19	8,7	1,0	18,0	47,7	52,3	497	98	37
4140			Magenta	PR-122	8,6	1,0	11,6	49,2	50,8	505	98	37
4142			YS Napthol Red	PR-170	9,4	1,1	28,9	33,9	66,1	381	110	43
4144			RO Red Iron Oxide	PR-101	16,4	2,0	60,9	18,9	81,1	371	98	37
4148			QR Quinacridone Red	PV-19	9,0	1,1	21,9	41,2	58,8	446	98	37
4150		n/a	TRO Trans Oxide Red	PR-101	11,3	1,3	33,7	32,1	67,9	432	98	37
4151			DPP Red	PR-254	9,5	1,1	37,0	38,8	61,2	443	98	37
4166			UO Orange Lead Free	BLEND	9,7	1,2	26,8	35,7	64,3	415	99	37
4176		n/a	TYO Trans Oxide Yellow	PY-42	11,6	1,4	35,4	34,6	65,4	470	98	37
4177			YO Yellow Iron Oxide	PY-42	13,7	1,6	51,4	21,6	78,4	356	98	37
4183			RU Raw Umber	PBr-7	11,5	1,4	37,0	28,7	71,3	396	99	37
4185			BU Burnt Umber	PBr-7	11,4	1,4	35,4	27,1	72,9	373	98	37
4188			BU Burnt Umber	PBr-7	11,8	1,4	38,4	26,1	73,9	368	99	37
4191			LB Lamp Black	PBLK-7	9,3	1,1	21,4	38,0	62,0	426	98	37
4192			LB Lamp Black	PBLK-7	9,3	1,1	19,9	34,4	65,7	384	95	35
4193			Carbon Black	PBLK-7	9,3	1,1	12,4	32,0	68,0	355	95	35
4198			Jet Black	PBLK-7	8,7	1,0	10,0	49,1	50,9	514	95	35

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*Calculated value

NOVOCOLOR® II

NovoColor® II colourants are the next generation of universal pigment dispersions manufactured for CCA. NovoColor II universal colourants are specifically engineered for use in decorative waterborne and solventborne coating systems to help formulators meet stringent VOC restrictions.

Key Features

- Universal colourant
- Non-resinous and formulated without APEO, formaldehyde or glycol
- Easy pour over technology to standard universal colourants
- Superior rheology to standard universal colourants as well as competitive colourant lines
- Outstanding stability with minimal settling
- No machine shake requirements, requires only hand shaking prior to use
- Broad compatibility with both water based and alkyd products
- Minimal impact on critical paint properties
- Matched to conventional colourant standards

Typical Uses

- POS Tinting of Decorative Waterborne and Solventborne Coatings
- Caulks and Sealants, Grout
- Cementitious Coatings, Adhesives, Inks

Specifications

- Controlled to +/- 1% tinting strength by volume
- Less than 1 Delta E FMC II colour tolerance for most colourants

NOVOCOLOR® II TECHNICAL DATA

PRODUCT NUMBER	MASS TONE	TINT	PRODUCT CODE	COLORANT NAME	CI PIGMENT NAME	TYPICAL PROPERTIES						
						DENSITY		%PRIME PIGMENT BY WT.	% INERT PIGMENT BY WT.	%TOTAL SOLIDS BY WT.	THEORETICAL VOC (g/L)*	% WATER BY WEIGHT
						lbs/gal	g/cc					
8800N			KX	White	PW6	16,6	2,0	54,2	11,7	81,9	0,1	18,0
8812N			AXXN	Yellow	PY74	9,7	1,2	34,0	5,7	54,1	0,0	45,9
8813N			AXN	Yellow	PY 74	11,2	1,3	13,4	31,3	64,3	0,6	35,6
8814N			T	Medium Yellow	BLEND	9,9	1,2	35,8	5,8	61,6	0,5	38,3
8815N			TT	Medium Yellow	BLEND	9,8	1,2	37,2	2,3	55,2	0,0	44,5
8818N			AN	Durable Yellow	BLEND	13,5	1,6	34,1	19,0	72,3	0,4	27,7
8820N			DD	Phthalo Green	PG7	11,0	1,3	22,9	16,5	60,1	0,2	39,8
8821N			D	Phthalo Green	PG7	11,6	1,4	10,1	33,0	62,2	0,1	37,7
8822N			D	Phthalo Green	PG7	11,4	1,4	11,6	30,2	63,0	0,1	36,9
8823N			D	Phthalo Green	PG7	11,2	1,3	12,0	28,0	61,9	0,1	38,0
8830N			EE	Phthalo Blue	PB15:2	10,5	1,3	12,6	22,7	54,6	1,0	45,3
8831N			E	Phthalo Blue	PB15:2	11,7	1,4	5,2	40,6	59,9	0,0	40,1
8832N			E	Phthalo Blue	PB15:2	10,7	1,3	6,9	29,0	56,0	0,0	44,0
8833N			E	Phthalo Blue	PB15:2	11,5	1,4	6,3	38,4	60,2	0,0	39,8
8834N			E	Phthalo Blue	PB15:2	10,6	1,3	7,3	26,9	54,7	0,0	45,2
8835N			F	Red Oxide	PR101	16,1	1,9	60,7	0,0	77,7	1,4	22,3
8836N			F	Red Oxide	PR101	17,4	2,1	64,2	0,0	80,3	1,4	19,6
8847N			S	Fast Red	BLEND	10,2	1,2	8,3	21,9	53,0	0,2	46,9
8848N			RH	Red	BLEND	9,3	1,1	13,0	20,4	52,7	0,2	46,2
8849N			V	Magenta	PR122	10,4	1,2	7,9	23,8	52,3	0,1	47,5
8851N			RR	Red	PR254	9,8	1,2	17,6	10,9	51,2	0,0	48,8
8852N			RR	Exterior Red	PR254	9,7	1,2	16,3	10,7	48,4	0,0	51,6
8864N			OO	Orange	PO73	10,7	1,3	25,0	21,5	63,3	0,0	36,7
8877N			C	Yellow Oxide	PY42	15,3	1,8	56,0	1,5	81,5	0,0	18,4
8878N			C	Yellow Oxide	PY42	15,4	1,8	57,5	0,0	76,3	0,3	23,7
8881N			MM	Magenta	PR122	10,0	1,2	14,3	31,8	47,3	0,0	52,7
8882N			M	Magenta	PR122	10,5	1,3	7,1	26,6	58,6	0,0	41,3
8883N			MM	Magenta	PR122	8,9	1,1	14,6	0,1	40,7	0,1	59,3
8885N			L	Raw Umber	PBR7	11,4	1,4	17,5	18,9	58,1	0,0	41,8
8887N			L	Raw Umber	PBR7	11,4	1,4	14,8	23,0	54,6	0,1	45,4
8888N			L	Raw Umber	PBR7	11,7	1,4	18,6	21,1	66,2	0,0	33,6
8889N			L	Raw Umber	PBR7	12,1	1,4	15,2	29,7	61,3	0,1	38,7
8890N			B	Lamp Black	PBK7	10,2	1,2	10,6	18,9	48,8	0,3	51,1
8891N			B	Carbon Black	PBK7	10,0	1,2	10,9	16,5	52,7	0,3	47,2
8892N			B	Carbon Black	PBK7	10,2	1,2	9,8	19,1	47,8	0,3	52,1
8893N			B	Carbon Black	PBK7	10,0	1,2	10,9	17,0	53,5	0,2	46,4
8894N			B	Carbon Black	PBK7	10,1	1,2	7,7	42,7	42,7	0,3	57,2
8895N			B	Carbon Black	PBK7	10,1	1,2	11,0	17,6	49,3	0,3	50,6
8897N			I	Brown Oxide	BLEND	13,3	1,6	32,8	17,9	68,1	0,8	31,9
8898N			I	Brown Oxide	BLEND	13,2	1,6	26,2	24,6	65,0	0,6	35,0

*Calculated value

NOVOCOLOR® HP II

NovoColor® HP II is the next generation of waterborne pigment dispersions manufactured for CCA. NovoColor HP II is specifically engineered for use in decorative and waterborne industrial coatings systems to help formulators meet stringent VOC restrictions.

Key Features

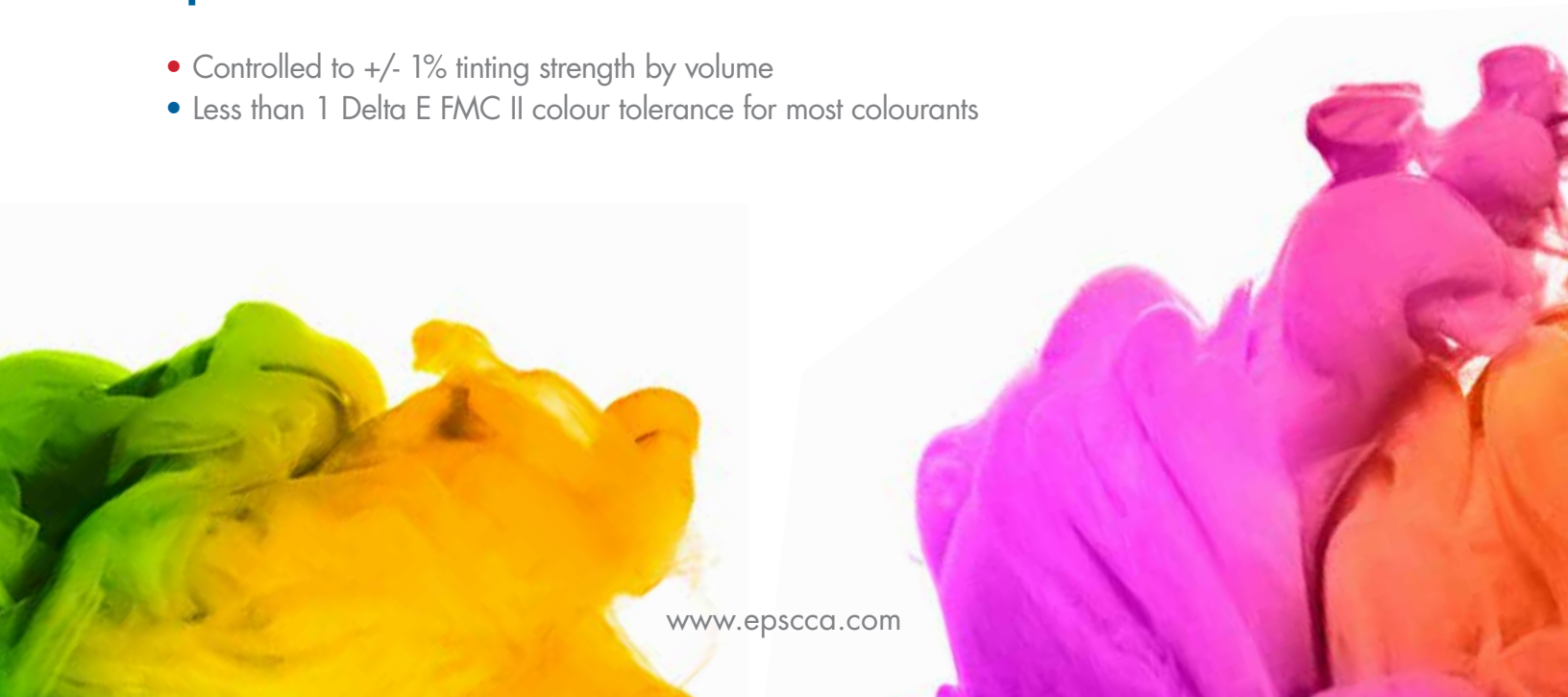
- Water-only colourant
- Non-resinous and formulated without APEO, formaldehyde or glycol
- Minimal impact on critical paint and coatings properties
- Compatibility in a wide range of waterborne coating systems
- Used in many acrylic emulsion, modified acrylic emulsion, PVA, waterborne 2K Polyurethane, waterborne 2K epoxy, and dispersible alkyd systems
- Wide range of pigment choices to meet your coating systems requirements for durability, chemical resistance, and colour space

Typical Uses

- POS Tinting of Decorative and Industrial Waterborne Coatings
- Caulks and Sealants, Grout, Cementitious Coatings
- Adhesives, Inks, Glass Coatings

Specifications

- Controlled to +/- 1% tinting strength by volume
- Less than 1 Delta E FMC II colour tolerance for most colourants



NOVOCOLOR® HP II TECHNICAL DATA

PRODUCT NUMBER	MASS TONE	TINT	PRODUCT CODE	COLORANT NAME	CI PIGMENT NAME	TYPICAL PROPERTIES						
						DENSITY		%PRIME PIGMENT BY WT.	% INERT PIGMENT BY WT.	%TOTAL SOLIDS BY WT.	THEORETICAL VOC (g/l)*	% WATER BY WEIGHT
						lbs/gal	g/cc					
8600N			KX	White	PW 6	16,9	2,0	56,4	9,4	73,8	0,0	26,2
8613N			AX	Yellow	Blend	10,7	1,3	24,7	7,7	42,1	0,0	57,8
8614N			T	Medium Yellow	Blend	10,0	1,2	20,5	13,0	44,2	0,0	55,8
8621N			DU	Phthalo Green	PG 7	11,2	1,3	13,6	27,0	52,6	0,0	47,5
8632N			EU	Phthalo Blue	PB 15:2	10,5	1,3	9,6	26,3	46,9	0,0	53,1
8635N			F	Red Oxide	Blend	17,0	2,0	60,8	3,1	73,0	0,0	27,0
8647N			R	Red	Blend	11,6	1,4	10,9	32,1	51,5	0,0	48,5
8649N			V	Magenta	PR 122	10,5	1,3	12,2	24,7	49,5	0,0	50,5
8651N			RU	High Hide Red	Blend	12,3	1,5	20,7	31,4	64,7	0,0	35,3
8678N			C	Yellow Oxide	PY 42	14,7	1,8	54,2	1,6	67,2	0,0	32,8
8688N			L	Raw Umber	PB 7	11,3	1,4	21,9	13,7	52,7	0,0	47,3
8691N			B	Lamp Black	PBk 7	11,5	1,4	8,1	29,7	46,2	0,0	53,8
8697N			I	Brown Oxide	Blend	13,0	1,6	37,0	9,1	55,2	0,0	44,8

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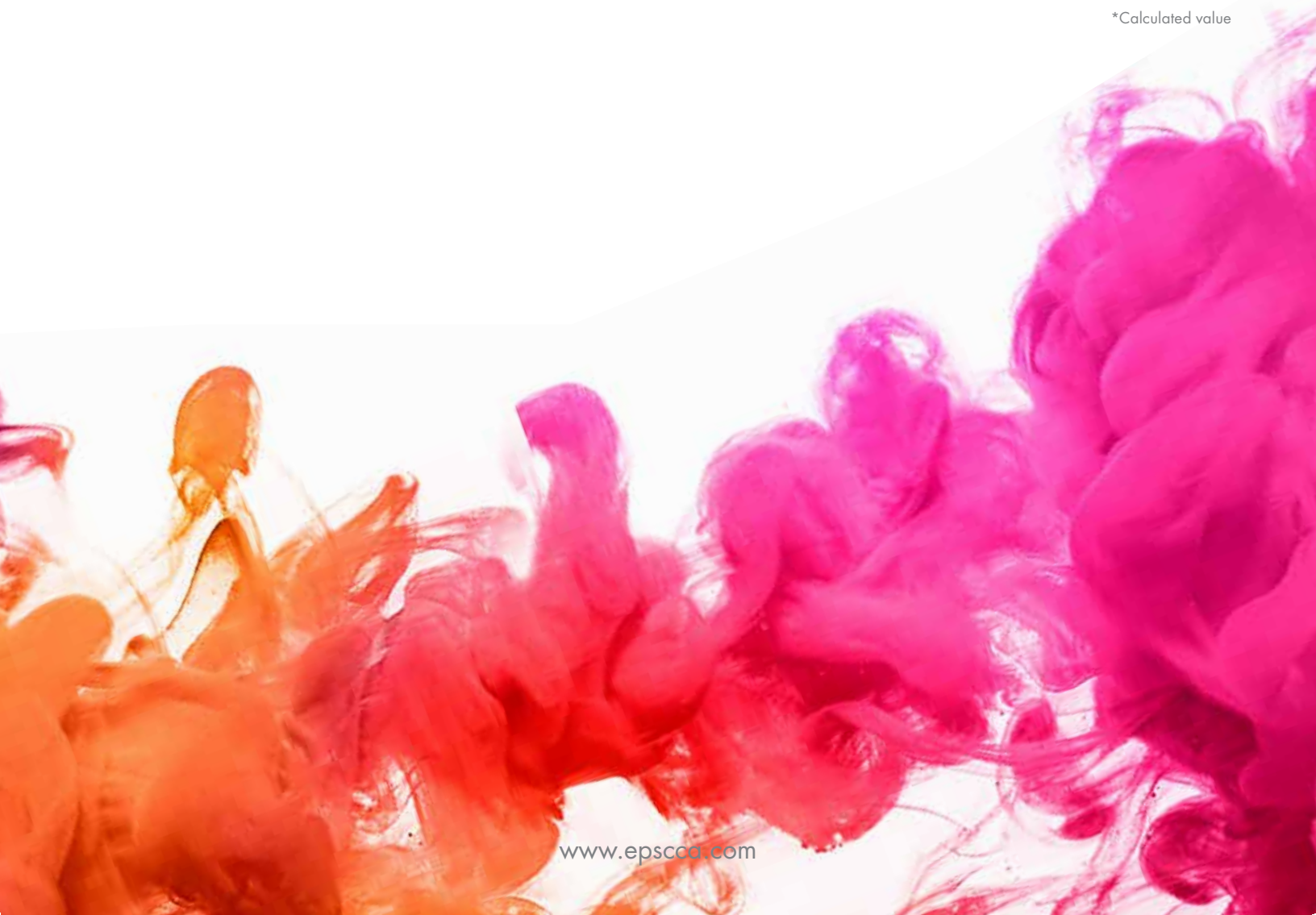
*Calculated value



NOVOCOLOR® IP

NovoColor IP is the next generation of high strength in-plant waterborne pigment dispersions manufactured for CCA. NovoColor® IP is specifically engineered for use in decorative and industrial waterborne coatings systems to help formulators meet stringent VOC restrictions.

Key Features

- Water-only colourant
- Non-resinous and formulated without APEO, formaldehyde or glycol
- Minimal impact on critical paint and coatings properties
- Compatibility in a wide range of waterborne coating systems
- Used in many acrylic emulsion, modified acrylic emulsion, PVA, waterborne 2K Polyurethane, waterborne 2K epoxy, and water reducible alkyd systems
- Wide range of pigment choices to meet your coating systems requirements for durability, chemical resistance, and colour space

Typical Uses

- In-Plant Tinting of Decorative and Industrial Waterborne Coatings
- Caulks and Sealants, Grout, Cementitious Coatings
- Adhesives, Inks, Glass Coatings

Specifications

- Tint strength controlled to +/- 2%, by weight
- Colour controlled to Delta E <1.0 CIELab unit
- Gravimetrically controlled dosing for in-plant tinting and shading

NOVOCOLOR® IP TECHNICAL DATA

PRODUCT NUMBER	MASS TONE	TINT	PRODUCT NAME	AVAILABILITY	CI PIGMENT NAME	TYPICAL PROPERTIES					
						DENSITY		%PRIME PIGMENT BY WT.	%TOTAL SOLIDS BY WT.	% WATER BY WT.	VOC g/L (EPA Method 24)
						lbs/gal	g/cc				
8500			White	Stock	PW 6	16,8	2,02	66,6	76,7	23,3	0,0
8511			Organic Yellow	Stock	PY 97	10,0	1,19	40,5	54,9	45,1	0,0
8513			Organic Yellow G/S	Stock	PY 74	9,7	1,17	47,3	61,6	38,4	0,0
8514			Organic Yellow R/S	Stock	PY 65	9,5	1,14	40,4	54,4	45,6	0,0
8515			Organic Med. Yellow	Stock	PY 83	10,0	1,19	49,7	60,1	39,9	0,0
8518			Exterior Yellow	Stock	PY 184	17,1	2,05	61,0	70,2	29,8	0,0
8522			Phthalo Green	Stock	PG 7	11,2	1,34	43,7	60,5	39,5	0,0
8531			Phthalo Blue	Stock	PB 15	9,4	1,13	28,1	51,2	48,8	0,0
8532			Phthalo Blue	Stock	PB 15	9,4	1,13	33,8	52,3	47,7	0,0
8533			Ultra Marine Blue	Stock	PB 29	12,2	1,46	53,8	61,2	38,8	0,0
8538T		n/a	Trans Oxide Red	Stock	PR 101	11,7	1,41	35,1	56,3	43,7	5,4
8539			Carbazole Violet	MTO	PV 23	9,9	1,18	14,7	50,3	49,7	0,0
8542			Organic Red	Stock	PR 170	9,3	1,11	33,9	51,8	48,2	0,0
8543			Naphthol Red	Stock	PR 112	9,6	1,15	34,4	57,9	42,1	0,0
8544C			Quinacridone Red	Stock	PR 209	9,4	1,12	24,4	43,1	56,9	0,0
8545			Red Oxide	Stock	PR 101	18,5	2,22	67,6	79,6	20,4	0,0
8546			High Hiding Durable Red	Stock	Blend	9,5	1,14	33,6	53,5	46,5	0,0
8549			Quinacridone Magenta	Stock	Blend	9,6	1,15	26,5	44,8	55,2	0,0
8566			DPP Orange	Stock	PO 73	8,7	1,04	15,1	25,1	74,9	0,0
8567			Pyrazolone Orange	Stock	PO 13	9,4	1,13	32,9	63,3	36,7	0,0
8569			Azo Orange	Stock	PO 74	11,4	1,37	14,5	60,9	39,1	0,0
8570T		n/a	Trans Oxide Yellow	Stock	PY 42	11,0	1,32	30,0	49,4	50,6	5,2
8573			Orange Oxide	Stock	PY 42	14,0	1,68	53,5	68,2	31,8	0,0
8576			Yellow Oxide	Stock	PY 42	15,8	1,89	60,5	74,8	25,2	0,0
8580			Quinacridone Violet	Stock	PV 19	8,9	1,07	13,2	27,0	73,0	0,0
8582			Quinacridone Magenta	Stock	PR 122	9,6	1,15	36,7	48,7	51,3	0,0
8588			Raw Umber	Stock	PBR 7	11,6	1,39	17,6	66,4	33,6	0,0
8589			Black Iron Oxide	MTO	PBK 26	16,8	2,02	61,6	76,8	23,2	0,0
8590			Weak Black	Stock	PBK 7	11,0	1,32	3,0	51,2	48,8	0,0
8591			Lamp Black	Stock	PBK 7	10,0	1,20	10,8	53,5	46,5	0,2
8592			High Strength Lamp Black	Stock	PBK 7	10,6	1,27	28,8	61,1	38,9	0,0
8594			Carbon Black	Stock	PBK 7	10,2	1,22	39,5	51,3	48,7	0,0
8596			Carbon Black	Stock	PBK 7	9,8	1,18	33,3	41,1	58,9	0,0
8597			Brown Oxide	Stock	Blend	13,1	1,56	29,1	66,7	33,3	0,6

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NOVOCOLOR® SF WATERBORNE
SUPERFINE COLORANTS

NovoColor SF Waterborne Dispersions are designed for the tinting of waterborne coatings and stains, especially wood stains and other applications where a high degree of transparency of colour is desired. The product line consists of 15 colour concentrates, composed of high quality pigments dispersed in an acrylic grinding vehicle and water. These colourants are controlled to very stringent colour and opacity standards, and give the user excellent batch to batch appearance uniformity.

Key Features

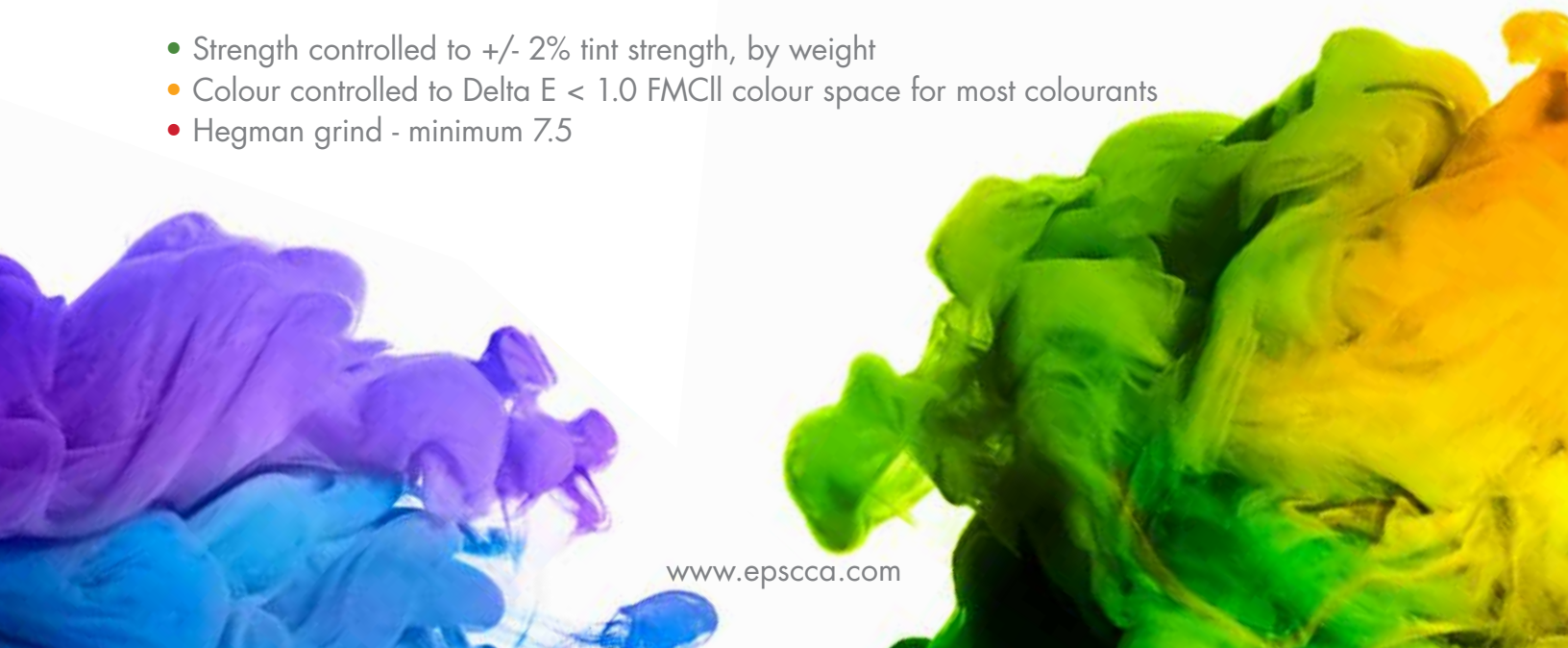
- Compatible in acrylic emulsion and waterborne or water-dispersible alkyd stains
- Compatible in most waterborne coatings for plastics
- Excellent stability of colour and transparency
- Capable of matching all types of wood stain colours
- More permanent than organic dyes
- Very small pigment particle size provides high gloss

Typical Uses

- In-Plant and Specialty Industrial Wood Stains and Coatings
- Wood Stains, Wood Graining Inks, Specialty Inks
- Fabric, Plastic, Foil, Glass Coatings

Specifications

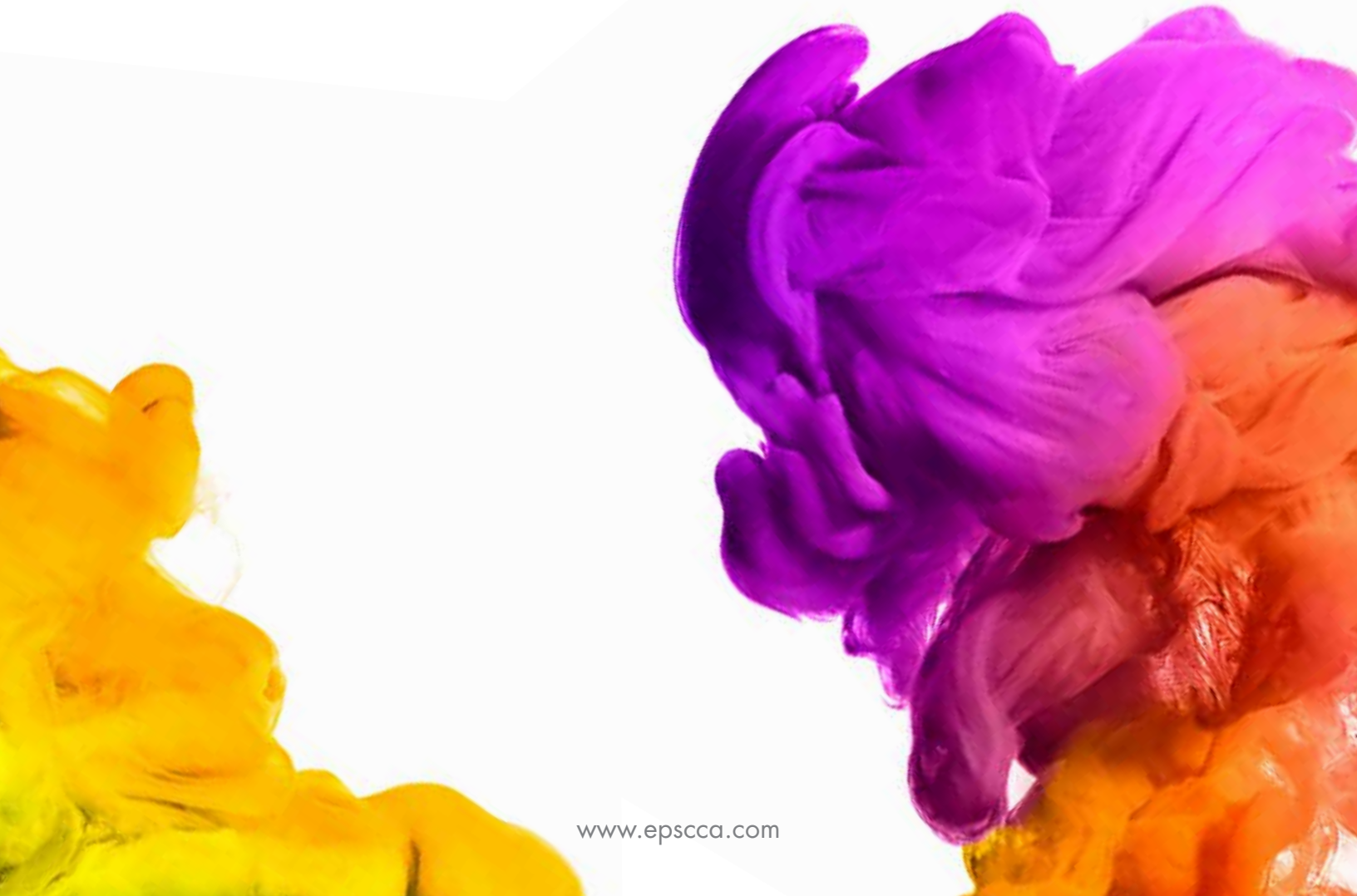
- Strength controlled to +/- 2% tint strength, by weight
- Colour controlled to Delta E < 1.0 FMCII colour space for most colourants
- Hegman grind - minimum 7.5



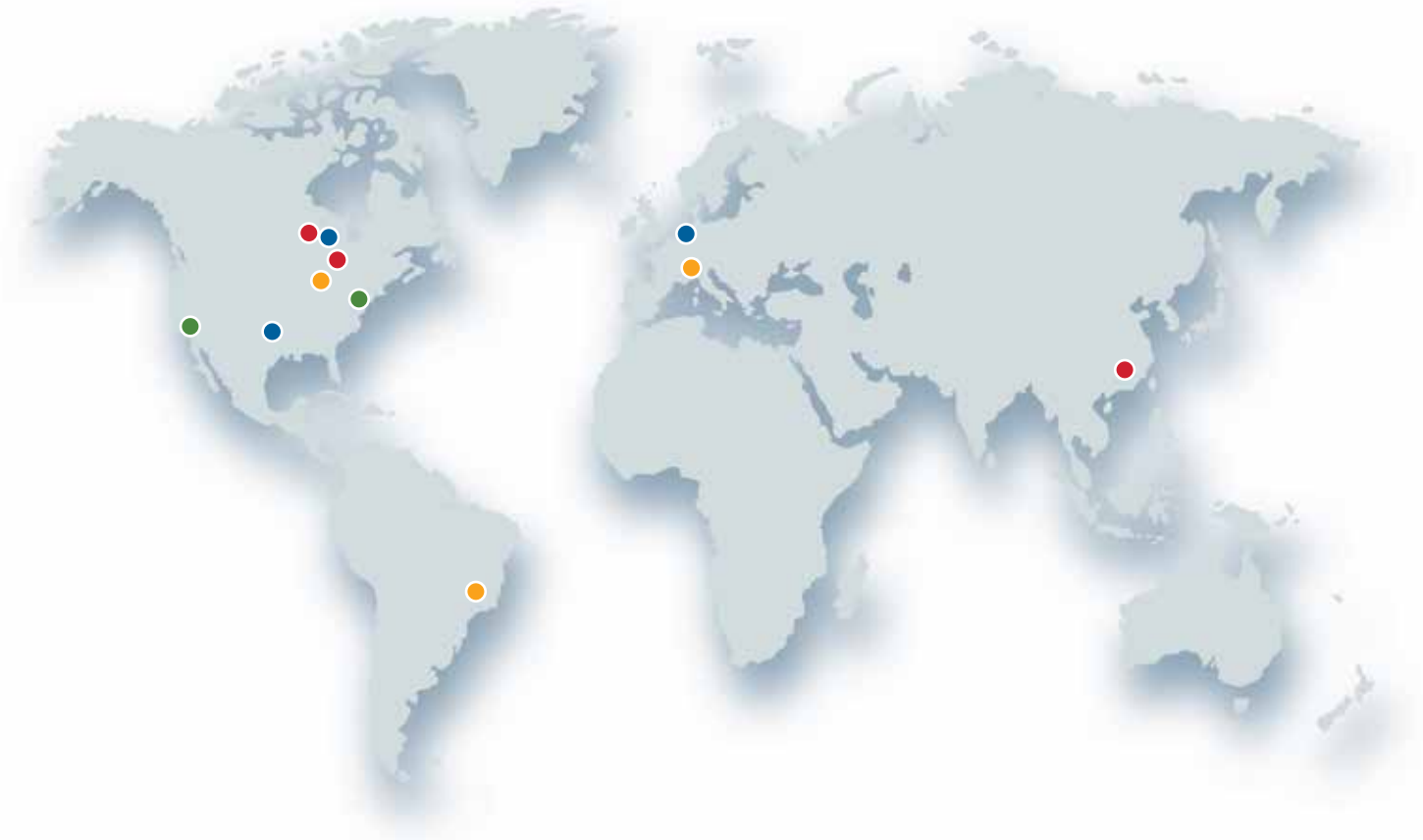
NOVOCOLOR® SF WATERBORNE SUPERFINE COLORANTS TECHNICAL DATA

PRODUCT NUMBER	MASS TONE	COLORANT NAME	CI PIGMENT NAME	TYPICAL PROPERTIES				
				DENSITY		%PRIME PIGMENT BY WT.	%TOTAL SOLIDS BY WT.	% WATER BY WT.
				lbs/gal	g/cc			
8114		Medium Yellow	PY83	9,4	1,1	34,0%	62,8%	37,2%
8115		Golden Yellow	PY110	9,3	1,1	20,0%	44,5%	55,5%
8122		Phthalo Green	PG7	9,9	1,2	31,8%	58,6%	41,4%
8132		Phthalo Blue	PB15:3	9,6	1,2	32,5%	71,2%	28,8%
8138		Trans Oxide Red	PR101	12,9	1,5	37,6%	64,9%	35,1%
8140		Carbazole Violet	PV23	9,3	1,1	18,2%	55,5%	44,5%
8142		Organic Red	PR166	9,1	1,1	20,0%	44,3%	55,7%
8144		Rubine Red	PR184	9,7	1,2	37,2%	64,0%	36,0%
8146		DPP Red	PR254	9,2	1,1	24,6%	46,1%	53,9%
8149		Magenta	PR122	9,5	1,1	29,7%	54,8%	45,2%
8170		Trans Oxide Yellow	PY42	12,9	1,5	33,1%	70,3%	29,7%
8194		Carbon Black	PBK7	9,8	1,2	32,1%	73,4%	26,6%

The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. CCA assumes no obligation or liability for use of this information. **UNLESS CCA AGREES OTHERWISE IN WRITING, CCA MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. CCA WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Your only remedy for any defect in this product is the replacement of the defective product, or a refund of its purchase price, at our option.



GLOBAL REACH



- Water Based Resins
- Solvent and Water Based Resins
- Solvent Based Resins
- Colourants

Marengo, Illinois
Rockford, Illinois
Kankakee, Illinois
South Holland, Illinois
Williamsport, Maryland
Los Angeles, California
Garland, Texas
Ambacht, The Netherlands
Pujaut, France
Aracariguama, Brazil
Dongguan, China

CCA color corporation of america

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