

CPSCOLOR™ COLORANTS
 COLORANT *overview*

Advanced color tinting for every application

COLORANT OVERVIEW



ANY COLOR YOU SEE

Stringent production controls and processes ensure that all CPSCOLOR™ colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.

There is a wide range of CPSCOLOR™ colorant technologies available to suit the unique production needs of many industries. Our colorant portfolio includes: water-based, solvent-based, low and no VOC colorant options. Tinting systems can be built up from a single technology or by mixing different technologies together to fulfill any particular need. CPSCOLOR™ colorants support tinting requirements at point-of-sale outlets or in-plant production facilities.

Colorants

DECORATIVE

MONICOLOR™

HYDRASPERSE™

SOLVASPERSE™

INDUSTRIAL

TEMACOLOR™

FACADE

NOVAPINT™

CPS COLOR

CPS Color is the leading global supplier of integrated tinting systems. Our mission is to help manufacturers to achieve maximum added value on their products while maintaining a competitive advantage. To explore the many benefits of integrated tinting systems please visit us at

www.cpscolor.com

CPSCOLOR™
 any color you see

CPSCOLOR™ COLORANTS

Decorative Paints

CPSCOLOR™ decorative colorants are specially designed to meet and exceed the technical requirements demanded by various architectural applications. They are formulated to satisfy the needs of both water- and solvent-based interior and exterior paint products.

Hydrasperse™ and Solvasperse™ represent our In-plant ranges specially formulated for the Industrial Gravimetric and Volumetric dispensers.

Our Decorative ranges support the Spirit and Nova fan decks as well as other various color cards.

MONICOLOR™ B

Universal, VOC < 300 g/l

Application area Water-based and solvent-based decorative paints
Technology Universal, APE-free, propylene glycol as co-solvent, VOC < 300 g/l
Number of standard colorants > 50
Benefit APE-free technology, fully compatible with traditional decorative paints
Pigmentation Modular pigmentation including interior/exterior and high/low concentration options
Packages 1-litre plastic can, 10-litre metal can
Suitable for All industry point-of-sale dispensers

MONICOLOR™ BL

Universal, APE-free, VOC < 50 g/l

Application area Water-based and solvent-based decorative paints
Technology Universal, APE-free, propylene glycol as co-solvent, VOC < 50 g/l
Number of standard colorants 17
Benefit Eco-friendly solution for decorative paints, thanks to low VOC content and APE-free raw materials
Pigmentation Modular pigmentation including interior/exterior and high/low concentration options
Packages 1-litre plastic can, 10-litre metal can
Suitable for All industry point-of-sale dispensers

MONICOLOR™ C

Universal, APE-free, VOC-free (< 1g/l)

Application area Water-based and solvent-based decorative paints
Technology Universal, APE-free, VOC-free
Number of standard colorants > 50
Benefit Environmentally friendly technology for decorative paints
Pigmentation Modular pigmentation including interior/exterior and high/low concentration options
Packages 1-litre plastic can, 10-litre metal can
Suitable for All industry point-of-sale dispensers

MONICOLOR™ K

Alkyd resin, aromatic-free, VOC < 300 g/l

Application area Solvent-based decorative long oil alkyds
Technology Alkyd resin, aromatic-free solvents, VOC < 300 g/l
Number of standard colorants 14
Benefit Environmentally friendly technology for modern alkyd paints
Pigmentation High-performance pigments, including Transparent Iron oxides
Packages 1-litre metal can, 10-litre metal can
Suitable for All industry point-of-sale, solvent-resistant dispensers

In-plant solutions

HYDRASPERSE™ EU

Water-based, APE Free, low VOC (< 1g/l)

Application area Water-based decorative paints for in-plant tinting
Technology APE and low VOC
Number of standard colorants 20
Benefit Cost-efficient, product specific technology with minimal impact on the technical properties of the paint (e.g. water repellency and viscosity)
Pigmentation Wide selection of high concentrated colorants based on both inorganic and organic pigmentation
Packages 10-litre metal can, sold in KG
Suitable for Industrial Gravimetric and Volumetric dispensers

SOLVASPERSE™ AK

Solvent-based Alkyd resin, aromatic-free, VOC < 300 g/l

Application area Solvent-based decorative long oil alkyds and wood coatings for in-plant tinting
Technology Alkyd resin, aromatic-free solvents, VOC < 300 g/l
Number of standard colorants 14
Benefit Environmentally friendly technology for modern alkyd paints
Pigmentation High-performance pigments, including transparent iron oxides
Packages 10-litre metal can, sold in KG
Suitable for Industrial Gravimetric and Volumetric dispensers



CPSCOLOR™ COLORANTS
Industrial Coatings

Paint manufacturers must be able to rely on their colorant systems and individual colorants. They require color reproducibility, smooth functionality and technical stability while having minimum effect on the properties of the final coating. CPSCOLOR™ industrial colorants meet with all these requirements.

CPSCOLOR™ industrial colorants offer you a standard - RAL and BS - or custom designed color portfolio for each technology.

■ **TEMACOLOR™ T**

Solvent-based, aromatic solvents, VOC < 600 g/l

Application area Solvent-based industrial coatings **Technology** Aromatic solvents, aldehyde binder, VOC < 600 g/l **Number of standard colorants** > 20 **Benefit** Fully compatible with traditional industrial coatings **Pigmentation** Solvent and heat resistant high-performance pigments **Packages** 1-litre metal can, 10-litre metal can **Suitable for** All industry solvent-resistant dispensers

■ **TEMACOLOR™ TL**

Solvent-based, aromatic free solvents, VOC < 350 g/l

Application area Solvent-based industrial coatings **Technology** Aromatic free solvents, VOC < 350 g/l **Number of standard colorants** 21 **Benefit** Aromatic free, whereby color and color strength is equal to TEMACOLOR™ T line **Pigmentation** Weather, chemical and heat resistant high performance pigments **Packages** 1-litre metal can, 10-litre metal can **Suitable for** All industry solvent-resistant dispensers

■ **TEMACOLOR™ HP**

Solvent based Wood coatings, aromatic free solvents, VOC < 600 g/l
Application area Solvent based one- and two-components coatings in industrial and wood finishes **Technology** Solvent based, aromatic free solvents, VOC < 600 g/l **Number of standard colorants** 21 **Benefit** Compatible with PU, acid-curing systems and nitrocellulose coatings **Pigmentation** Chemical and heat resistant high performance pigments **Packages** 18, 20 or 25 kg metal can **Suitable for** All industry solvent-resistant dispensers

■ **TEMACOLOR™ S**

Solvent-based, aromatic-free, VOC < 350 g/l
Application area Solvent-based industrial coatings **Technology** Aromatic free solvents, aldehyde binder, VOC < 350 g/l **Number of standard colorants** 17 **Benefit** Environmentally friendly technology for modern industrial coatings, improved compatibility with high solids coatings **Pigmentation** Solvent and heat resistant high performance pigments **Packages** 1-litre metal can, 10-litre metal can **Suitable for** All industry solvent-resistant dispensers

■ **TEMACOLOR™ W**

Water-based, APE-free, VOC < 100 g/l
Application area Water-based industrial coatings **Technology** Water-based, aldehyde binder, APE-free, propylene glycol as co-solvent, VOC < 100 g/l **Number of standard colorants** 19 **Benefit** Fully compatible with modern water-based industrial coatings **Pigmentation** High performance pigments to meet the demanding requirements of industrial coatings **Packages** 1-litre plastic can, 10-litre metal can **Suitable for** All industry dispensers

■ **TEMACOLOR™ EP**

Epoxy based, solvent-free
Application area 2-c epoxy floor coatings **Technology** Solvent-free, epoxy binder **Number of standard colorants** 12 **Benefit** Machine dispensable technology **Pigmentation** High performance pigments to meet the demanding requirements of industrial coatings **Packages** 4-litre plastic can, 10-litre metal can **Suitable for** All industry dispensers

■ **AURICOLOR™ CB**

Solvent free, Vegetable oil based
Application area coloration of various thermoplastics, in particular packaging, house ware and toy industries **Technology** Solvent free, Vegetable oil based **Number of standard colorants** 15 **Benefit** Mixing colors on demand, reducing storage for hundreds of different masterbatches **Pigmentation** organic and inorganic pigments dispersed in a vegetable oil **Packages** 10-litre metal can **Suitable for** thermoplastics in particular PP, HD-PE, ABS, PS, PVC, PDPE and LLDPE

■ **AURICOLOR™ PE**

Solvent free, monomer free, unsaturated polyester based
Application area Thermoset polyester applications **Technology** Solvent free, monomer free, unsaturated polyester based **Number of standard colorants** 11 **Benefit** Increase of production flexibility by taking full control over the color and managing the color accuracy and repeatability **Pigmentation** organic and inorganic pigments dispersed in a monomer free, unsaturated polyester carrier resin **Packages** 10-litre metal can **Suitable for** Sheet Molding Compound (SMC) and Bulk Molding Compound (BMC) applications

■ **MAESTRO™**

Water-based, VOC and APE free
Application area Top quality leather, including automotive and upholstery **Technology** Water-based, VOC, APE and lead free **Number of standard colorants** 16 **Benefit** Maximized pigment content in order to minimize colorant additions **Pigmentation** Excellent weather and light fastness pigments, only the least migrating pigment qualities are accepted into the system, all the pigments are lead-free **Packages** 10-litre metal can **Suitable for** most typical resin types used in water-based leather finishes, including acrylics, polyurethanes and vinyl acetates

CPSCOLOR™ COLORANTS

Facade Paints

CPS Color has an extensive knowledge of facade products. With over twenty years of experience in fulfilling the highest demands in terms of water repellence and weather fastness, we are able to meet your requirements in facade tinting.

High performance colorants for silicone, silicate, synthetic and acrylic exterior paints and plasters. Our facade colorants offer a wide color space, cost efficiency and the use of existing POS equipment or In-Plant tinting systems.

The Novapint colorant ranges support the CPS Color Facade fandeck. This fandeck shows 250 standard and brilliant colors in original paint.

NOVAPINT™ D

Water-based, APE-free, VOC <150 g/l

Application area water-based facade paints for in-plant tinting **Technology** APE-free, VOC <150 g/l **Number of standard colorants** 37 **Benefit** fully compatible with synthetic resin, silicate and silicone based paint and plasters **Pigmentation** wide selection of colorants based on both inorganic and organic pigments **Packages** 1-litre HDPE can, 18, 20 or 25 kg pail **Suitable for** Industrial Gravimetric and Volumetric dispensers

NOVAPINT™ D-SOLAR REFLECTIVE

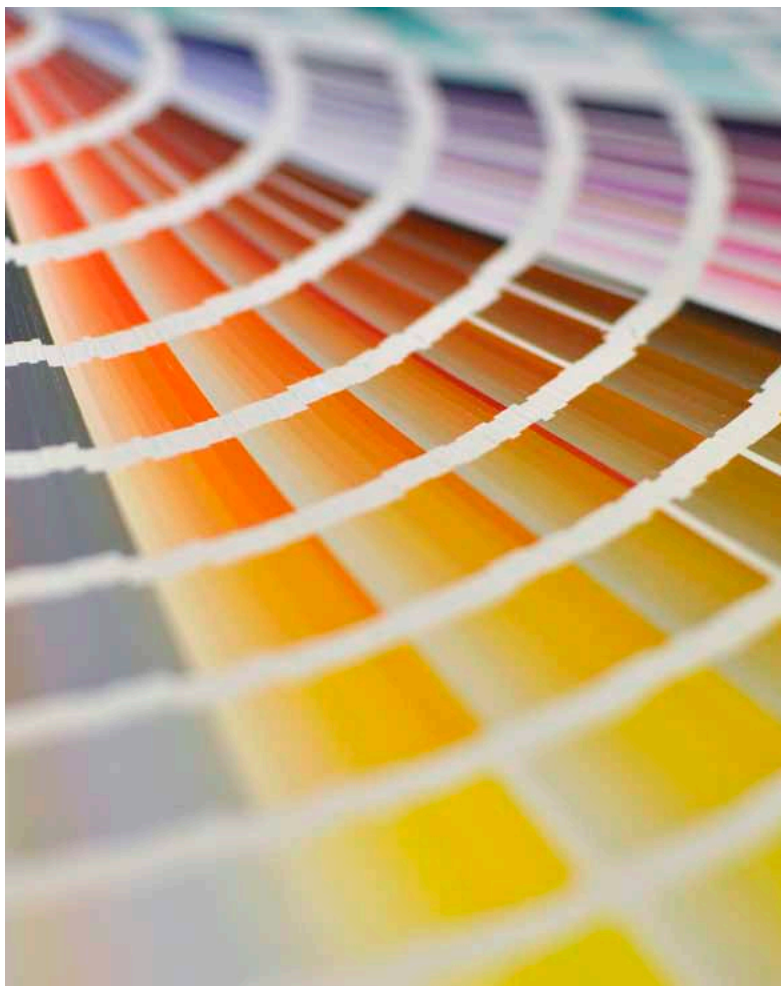
Water-based, APE-free, VOC <150 g/l

Application area water-based facade or roof paints, Exterior Insulation Finishing System (EIFS), window frames **Technology** APE-free, VOC <150 g/l **Number of standard colorants** 16 **Benefit** fully compatible with synthetic resin, silicate and silicone based paint and plasters **Pigmentation** wide selection of colorants based on both inorganic and organic pigments **Packages** 1-litre HDPE can, 18, 20 or 25 kg pail **Suitable for** Industrial Gravimetric and Volumetric dispensers

NOVAPINT™ E

Water-based, APE-free, VOC-free (<1g/l)

Application area water-based decorative paints and facade products for POS tinting **Technology** APE-free, VOC-free (<1g/l) **Number of standard colorants** 30 **Benefit** product specific technology enabling minimized impact on the technical properties required by the paint (e.g. water repellence and viscosity) **Pigmentation** wide selection of colorants based on both inorganic and organic pigments **Packages** 1-litre HDPE can, 5 and 10 liter pail **Suitable for** all industry point-of-sale dispensers



SUPPORTING YOUR SUCCESS

CPS Color global operations can be found on six continents

With more than 1,000 employees worldwide, we are committed to satisfying the needs of our customers. Our strategic locations are backed by a team of responsive professionals who've undergone extensive training. We are ready to assist you anytime, anywhere.

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OUR SERVICES

As the leading supplier of integrated tinting solutions, CPS Color 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, field conversion and sales support
- daily technical service

Over 200 major paint producers have already trusted CPS Color with the conversion of their colorant systems. Let us assist you too in achieving maximum added value on your products.

GLOBAL SUPPLIER OF INTEGRATED TINTING SOLUTIONS:

Colorants

- MONICOLOR™ universal decorative colorants
- NOVAPINT™ water-based facade colorants
- TEMACOLOR™ industrial colorants

Equipment

- COROB™ dispensing & mixing equipment
- COROB™ in-plant engineering

Software & service

- INNOVATINT™ software
- Worldwide service and customer support
- Color marketing

WWW.CPSCOLOR.COM

CPSCOLOR™
any color you see

CPSCOLOR™ COLORANTS
MONICOLOR™ UNIVERSAL



MONICOLOR™ UNIVERSAL

The colorant standard
for universal decorative
applications



CPS COLOR

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CPSCOLOR™
any color you see

The colorant standard for universal decorative applications

Faced with growing technical and environmental challenges, the paint industry requires colorant solutions that demonstrate proven performance while offering a vast selection of colors. The number and variety of decorative products, such as alkyds and latexes, for both interior and exterior use is growing all the time.

With new products, come new challenges. Technical specifications within the paint industry are increasingly compounded by ever-changing environmental requirements. Stricter regulations are being introduced that apply to the colorants the paint industry uses in their products.

OUR SOLUTION

The complete range of universal MONICOLOR™ decorative colorants from CPS Color is suitable for use with a variety of latex paints, long oil alkyds, enamels and wood stains.

The pigmentation of MONICOLOR™ colorants has been formulated to meet the performance needs of decorative paints. Key performance requirements such as light fastness, accuracy in pastels, opacity and cost effectiveness have been considered.

There are additional economical yellow and red options in the MONICOLOR™ portfolio to ensure a good price/performance balance. MONICOLOR™ colorants ensure accuracy and reproducibility at point-of-sale. Color and color strength are volumetrically controlled.

MONICOLOR™ UNIVERSAL products are available in various technologies meeting any tinting requirement:

MONICOLOR™ B

The technology in MONICOLOR™ B colorants is APE free. Propylene glycol is used as a co-solvent assuring efficient functionality and performance in dispensing equipment.

MONICOLOR™ BL

MONICOLOR™ BL colorants are APE free and have a VOC content lower than 50 grams per liter.

MONICOLOR™ C

All MONICOLOR™ C colorants are VOC and APE free, meeting the latest environmental requirements.

MIXED SYSTEMS

MONICOLOR™ colorants are fully compatible with each other and can be used interchangeably to create a fully customized tinting system. The color experts at CPS Color will work to create a unique system to meet your needs taking in to account:

- Technical performance
- Existing POS equipment
- Required color space
- Future needs
- Budget

ACHIEVING HIGH PERFORMANCE RED AND YELLOW BASES

Attaining optimal quality and hiding performance in the critical color areas (red, yellow and orange) can be challenging. The color experts at CPS Color recommend that paint manufacturers include a yellow and red base offering in their tinting system.

CPS Color offers a red and yellow base paint concentrate in both alkyd and water. These competitively priced color solutions are available in 10 liter pails allowing paint manufacturers a simple and easy solution for producing red and yellow base paints.

CONVERSION SUPPORT

As the only global supplier to engineer and manufacture both colorants and dispensing equipment, CPS Color is the best resource to ensure a smooth colorant technology conversion. The tinting system specialists at CPS Color assist customers in navigating the mine fields of the conversion process including:

- System design, optimization and pigment selection
- Base paint characterization and colorant compatibility
- Color matching and database development
- Equipment compatibility, field conversion and sales support
- Ongoing support for daily operations



ANY COLOR YOU CAN SEE

Stringent production controls and processes ensure that all CPSCOLOR™ colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.

Our colorant portfolio includes: Water borne, Solvent, Low and No VOC colorant options for many industries.

MONICOLOR™ UNIVERSAL COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|-------|--------------------|------------------------|----------------------------------|--|--|--|--|--------------------------------|
| XT | WHITE | PW 6 | 65 | 8 | n/a | 5 | n/a | 200 |
| ZK*** | BIVA YELLOW | PY 184 | 50 | 8 | 8 | 4-5 | 4-5 | 200 |
| ZT | CITRON YELLOW | PY 138 | 12 | 8 | 8 | 4-5 | 4 | 200 |
| KS | YELLOW | PY 74 | 20 | 7-8 | 6-7 | 4-5 | 3 | 140 |
| US | ORANGE YELLOW | PY 83 | 29 | 7-8 | 6-7 | 4 | 3 | 200 |
| RT | YELLOW OXIDE | PY 42 | 55 | 8 | 8 | 5 | 5 | 180 |
| PT | ORANGE RED | PR 168 | 10 | 8 | 8 | 5 | 4-5 | 180 |
| PP*** | ORANGE RED | PR 188 | 10 | 7-8 | 6-7 | 4-5 | 3-4 | 200 |
| RD | RED | PR 254 | 35 | 8 | 8 | 4-5 | 4 | 200 |
| RS | RED | PR 112 | 20 | 8 | 6 | 4-5 | 3 | 180 |
| VT | RED OXIDE | PR 101 | 50 | 8 | 8 | 5 | 5 | 200 |
| ST | UMBER | PBk 7 / PY 42 / PR 101 | 35 | 8 | 8 | 5 | 5 | 180 |
| MM | MAGENTA | PR 122 | 25 | 7 | 7-8 | 4 | 4-5 | 200 |
| HS | BORDEAUX | PV 19 | 13 | 7 | 7-8 | 4 | 4 | 200 |
| FT | VIOLET | PV 23 | 2 | 8 | 8 | 5 | 4 | 160 |
| MT | BLUE | PB 15:4 | 7 | 8 | 8 | 5 | 4-5** | 200 |
| MK*** | COBALT BLUE | PB 28 | 55 | 8 | 8 | 5 | 5 | 200 |
| MS | BLUE STRONG | PB 15:3 | 28 | 8 | 8 | 5 | 4-5** | 200 |
| LT | GREEN | PG 36 | 10 | 8 | 8 | 5 | 4-5** | 200 |
| LS | GREEN STRONG | PG 7 | 20 | 8 | 8 | 5 | 4-5** | 200 |
| LK*** | CHROME OXIDE GREEN | PG 17 | 54 | 8 | 8 | 5 | 5 | 200 |
| TT | BLACK | PBk 7 | 9 | 8 | 8 | 5 | 5 | 200 |
| TK*** | BLACK OXIDE | PBk 11 | 41 | 8 | 8 | 5 | 5 | 180 |

* These values should only be used as guidelines.

** See: Notes to the Technical Data Sheet

*** Currently not available in BL technology

| | | | | | | | | | | | | | |
|-----------------------|-------------------------------|---------------------------------|-------------------------|--------------------------------|-------------------------------|------------------------------|------------------------------|-----------------------|-----------------------|-----------------------------|---|----|------------------|
| 10 VOL % / CLEAR | | | | | | | | | | | | | 10 VOL % / CLEAR |
| XT | ZK*** | ZT | KS | US | RT | PT | PP*** | RD | RS | VT | ST | | |
| White PW 6 65 % | BiVa Yellow PY 184 50 % | Citron Yellow PY 138 12 % | Yellow PY 74 20 % | Orange Yellow PY 83 29 % | Yellow Oxide PY 42 55 % | Orange Red PR 168 10 % | Orange Red PR 188 10 % | Red PR 254 35 % | Red PR 112 20 % | Red Oxide PR 101 50 % | Umber PBk 7 / PY 42 / PR 101 35 % | | |
| 2 VOL % / WHITE | | | | | | | | | | | | | 2 VOL % / WHITE |
| | XT | ZK*** | ZT | KS | US | RT | PT | PP*** | RD | RS | VT | ST | |

*** Currently not available in BL technology


| | | | | | | | | | | | | |
|------------------|---------------------------|---------------------------|------------------------|------------------------|------------------------------|--------------------------------|------------------------|------------------------------|-------------------------------------|-----------------------|-------------------------------|------------------|
| 2 VOL % / WHITE | | | | | | | | | | | | 2 VOL % / WHITE |
| | MM | HS | FT | MT | MK*** | MS | LT | LS | LK*** | TT | TK*** | |
| | Magenta PR 122 25 % | Bordeaux PV 19 13 % | Violet PV 23 2 % | Blue PB 15:4 7 % | Cobalt Blue PB 28 55 % | Blue Strong PB 15:3 28 % | Green PG 36 10 % | Green Strong PG 7 20 % | Chrome Oxide Green PG 17 54 % | Black PBk 7 9 % | Black Oxide PBk 11 41 % | |
| 10 VOL % / CLEAR | | | | | | | | | | | | 10 VOL % / CLEAR |
| | MM | HS | FT | MT | MK*** | MS | LT | LS | LK*** | TT | TK*** | |

MONICOLOR™ UNIVERSAL

CPSCOLOR™
any color you see

CPSCOLOR™ COLORANTS

MONICOLOR™ K



MONICOLOR™ K

Low-voc colorant
technology for alkyd paints



CPS COLOR

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any colour you see

CPS Color innovation helps paint manufacturers achieve lower voc content regulations for decorative alkyd products

The European Union's directive coming into force in Europe in 2010 requires the VOC (Volatile Organic Compounds) level to be below 300 grams per liter in solvent-borne decorative alkyd paints.

CPS Color is the leading producer of low-VOC colorants for water-borne applications in the decorative paint sector. Our expertise drives us to develop solutions for solvent-borne paints, which are still an important part of the product mix in many areas, both within and outside Europe. Although the EU directive does not impose specific limitations on colorants, CPS Color wants to ensure that decorative alkyds continue to meet the new legal requirements when tinted with CPSCOLOR™ colorants.

CPS COLOR'S SOLUTION

CPS Color's MONICOLOR™ K is the only commercially available colorant range specifically developed for the tinting of various types of long and medium-oil decorative alkyd paints, for both interior and exterior applications. MONICOLOR™ K colorants are based on alkyd resin and aromatic-free solvents. The reduced VOC content (< 300 g/l) guarantees compliance with the current EU directive, provided that the paint itself meets its requirements. The new MONICOLOR™ K family has 14 medium to highly-concentrated colorants for optimal economical performance. To ensure their ease of use in the market and retail shops, the technology is a coloristic drop-in system for CPS Color's MONICOLOR™ G technology (with VOC < 400 g/l).

The MONICOLOR™ K colorants have been tested in many available alkyd paint products, demonstrating excellent compatibility and minimal effect on properties such as gloss and drying. The colorants can be added up to 15% by volume in order to maintain good hiding power. The technology has been successfully tested in different dispensers with gear, bellows and piston pump technologies.

MIXED SYSTEMS

MONICOLOR™ K colorants are fully compatible in mixed technology systems as they can be used in combination with water based universal or water compatible colorants. They are compatible with other CPS technologies (B, C, or E). This mixing of technologies is a perfect tool for creating a customized system, covering a complete paint technology portfolio and optimizing system performance in a range of areas including:

- Color space
- Costs
- Existing available POS equipment
- Technical performance
- CPS Color is perfectly able to support you in creating a customized system

SUPPORT

We have converted nearly 200 major paint producer's colorant systems. CPS Color will be a true partner with you to ensure the conversion is a complete success meeting all your business and marketing objectives. CPS Color project managers help our customers smoothly navigate the mine fields of the conversion process including:

- Assurance of colorant and base paint compatibility
- Color matching and database development services to ease the transition for your retailers and their customers
- Efficient transition of colorants within your existing base of dispensers
- CPS Color has an extensive global service network, which will assist you in managing the change over towards a new tinting system



CPSCOLOR™ COLORANTS

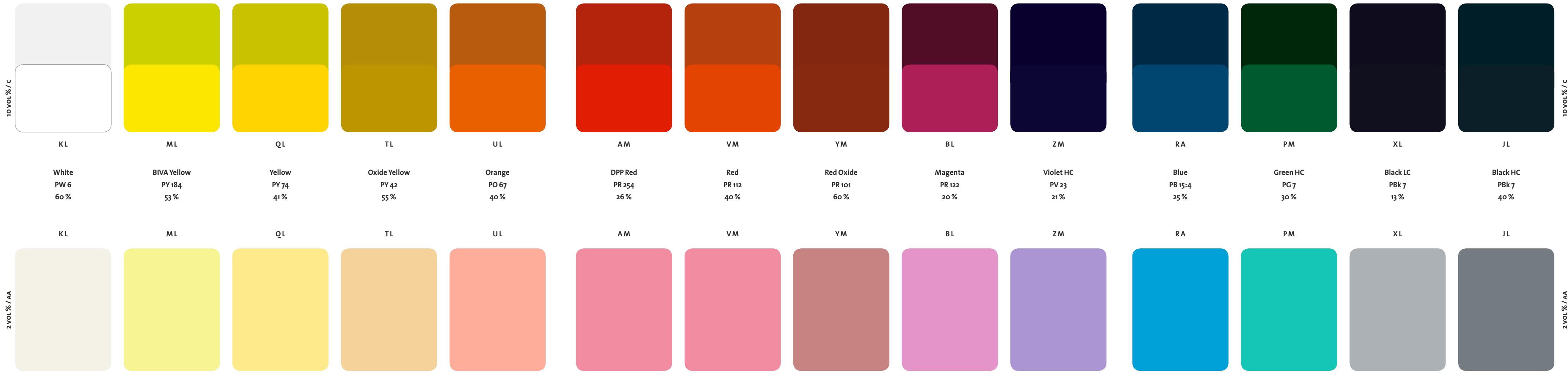
CPSCOLOR™ colorants are manufactured to rigid specifications such as color shade, color strength and rheology. This guarantees both excellent color accuracy and color reproducibility. There is a wide range of CPSCOLOR™ colorant technologies to suit the production of decorative paints, industrial coatings, leather finishes and coated fabrics. Tinting systems can be built up from a single technology or by mixing different technologies together to fulfill any particular need. CPSCOLOR™ colorants support tinting at point-of-sale outlets or in-plant production lines.

MONICOLOR™ K COLORANTS

| NAME | COLOUR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|------|--------------|---------|----------------------------------|--|--|--|--|--------------------------------|
| AM | DPP RED | PR 254 | 26 | 8 | 8 | 4-5 | 4 | 200 |
| BL | MAGENTA | PR 122 | 20 | 7 | 7-8 | 4 | 4-5 | 200 |
| JL | BLACK HC | PBk 7 | 40 | 8 | 8 | 5 | 5 | 200 |
| KL | WHITE | PW 6 | 60 | 8 | n/a | 5 | n/a | 200 |
| ML | BIVA YELLOW | PY 184 | 53 | 8 | 8 | 4-5 | 4-5 | 200 |
| PM | GREEN HC | PG 7 | 30 | 8 | 8 | 5 | 4-5** | 200 |
| QL | YELLOW | PY 74 | 41 | 7-8 | 6-7 | 4-5 | 3 | 140 |
| RA | BLUE | PB 15:4 | 25 | 8 | 8 | 5 | 4-5** | 200 |
| TL | OXIDE YELLOW | PY 42 | 55 | 8 | 8 | 5 | 5 | 180 |
| UL | ORANGE | PO 67 | 40 | 8 | 6-7 | 4-5 | 3 | 200 |
| VM | RED | PR 112 | 40 | 8 | 6 | 4-5 | 3 | 180 |
| XL | BLACK LC | PBk 7 | 13 | 8 | 8 | 5 | 5 | 200 |
| YM | RED OXIDE | PR 101 | 60 | 8 | 8 | 5 | 5 | 200 |
| ZM | VIOLET HC | PV 23 | 21 | 8 | 8 | 5 | 4 | 160 |

* These values should only be used as guidelines.

** See: Notes to the Technical Data Sheet



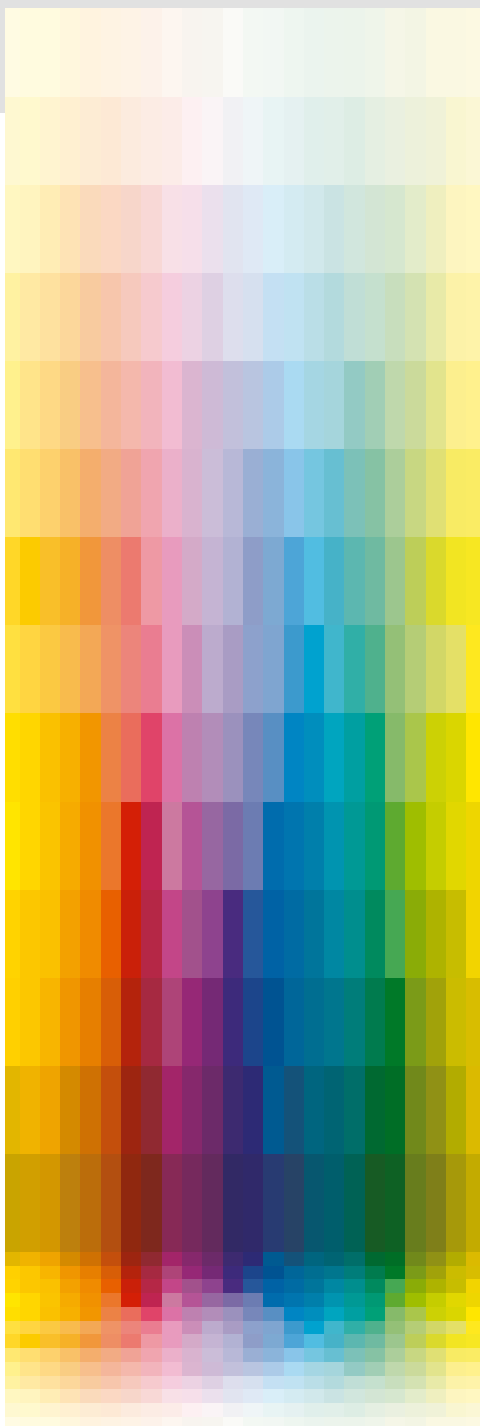
MONICOLOR™ K

CPSCOLOR™ COLORANTS

NOVAPINT™ E

NOVAPINT™ E

Designed for high-performance POS tinting
with waterborne facade paints



CPS COLOR

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CPS Color meets the challenges of POS tinting with waterborne facade paints

NOVAPINT™ E waterborne colorant range combines all important technical factors for successful POS tinting with facade paints.

CPS Color's NOVAPINT™ E technology offers a range of high performance colorants for silicone emulsion and silicate dispersion paints, as well as acrylic plasters. A selection that ensures to meet the highest demands of water repellency and weather fastness in facade tinting.

APPLICATION

In addition to facade paints, NOVAPINT™ E also shows excellent results in waterborne decorative and industrial paints. NOVAPINT™ E is an all-round range of colorants that covers the full spectrum of waterborne paints, from facade paints to interior and exterior latex paints.

PROPERTIES

The CPS Color NOVAPINT™ E colorants are a perfect fit for outdoor applications. These high alkaline and PVC (Pigment Volume Concentration) applications must ensure that both paint and pigment properties, such as excellent weather and light fastness, are not compromised. Beyond that, NOVAPINT™ E offers a selection of 14 inorganic colorants and an unusually wide color variety in the yellow-orange-red area - an area that has traditionally been out of reach for most colorants. The NOVAPINT™ E system covers the green color area with an oxide green colorant which allows tinting of facades in more traditional green shades, whilst the bright turquoise and cobalt green are available for pure green shades.

The NOVAPINT™ E colorant selection is completed by the inorganic oxide black PBk33, which provides higher compatibility and stability compared to PBk11.

The organic pigments used in the NOVAPINT™ E range are carefully selected to strike the perfect balance between weather fastness and economical alternatives in tinting. The range offers a cost-effective alternative for both interior and exterior quality colorants without compromising on durability and weather resistance.

All colorants in the NOVAPINT™ E system are VOC (Volatile Organic Compounds) and APE (Alkyl Phenol Ethoxylate) free, which makes them fully compliant with latest requirements and anticipated regulations.

BENEFITS

NOVAPINT™ E colorants – both organic and inorganic – are fully compatible and can be used in combination with other CPS technologies. This technology mix is a perfect tool for creating customized systems, covering a complete paint technology portfolio including water and solvent borne products. NOVAPINT™ E offers a wide color space, cost efficiency, the use of existing POS equipment and compliance with all technical challenges, requirements and regulations.

OUR SERVICES

As the leading supplier of integrated tinting solutions, CPS Color 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, field conversion and sales support
- daily technical service

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Colorants

- MONICOLOR™ universal decorative colorants
- NOVAPINT™ water-based facade colorants
- TEMACOLOR™ industrial colorants

Equipment

- COROB™ dispensing & mixing equipment
- COROB™ in-plant engineering

Software & service

- INNOVATINT™ software
- Worldwide service and customer support
- Color marketing



ANY COLOR YOU SEE

Stringent production controls and processes ensure that all cpscolor™ colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.

Our colorant portfolio includes: Water-borne, Solvent, low and no VOC colorant options for many industries.

NOVAPINT™ E COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT (%) | LIGHT FASTNESS OF PIGMENT ¹⁾ FULL. (1-8) | LIGHT FASTNESS OF PIGMENT ¹⁾ REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT ²⁾ FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT ²⁾ REDUCT. (1-5) |
|--|-------------------|---------|---------------------------------|---|---|---|---|
| INORGANIC PIGMENT ³⁾ | | | | | | | |
| WX11 | WHITE | PW 6 | 65 | 8 | N/A | 5 | N/A |
| BX10 | COBALT BLUE | PB 28 | 64 | 8 | 8 | 5 | 5 |
| GX12 | TURQUOISE GREEN | PB 28 | 48 | 8 | 8 | 5 | 5 |
| BX11 | ULTRA MARINE BLUE | PB 29 | 50 | 8 | 8 | 4-5 | 4-5 |
| CX10 | OXIDE BLACK | PBk 33 | 54 | 8 | 8 | 5 | 5 |
| YX12 | BIVA YELLOW | PY 184 | 60 | 8 | 8 | 4-5 | 4-5 |
| GX10 | OXIDE GREEN | PG 17 | 68 | 8 | 8 | 5 | 5 |
| GX11 | COBALT GREEN | PG 50 | 59 | 8 | 8 | 5 | 5 |
| YX13 | BIVA ORANGE | PY 184 | 64 | 7-8 | 8 | 4-5 | 5 |
| YX14 | ZINC ORANGE | PY 216 | 50 | 8 | 7-8 | 5 | 4-5 |
| YX10 | OXIDE YELLOW | PY 42 | 52 | 8 | 8 | 5 | 5 |
| RX10 | OXIDE RED | PR 101 | 57 | 8 | 8 | 5 | 5 |
| RX11 | OXIDE VIOLET | PR 101 | 65 | 8 | 8 | 5 | 5 |
| YX11 | OXIDE ORANGE | PY 42 | 52 | 8 | 8 | 5 | 5 |
| ORGANIC PIGMENT | | | | | | | |
| BH3 | BLUE | PB 15:3 | 35 | 8 | 8 | 5 | 4-5 |
| VH3 | VIOLET | PV 23 | 8 | 8 | 8 | 5 | 4 |
| OH3 | ORANGE YELLOW | PY 110 | 30 | 7 | 8 | 4-5 | 5 |
| CH3 | BLACK STRONG | PBk 7 | 29 | 8 | 8 | 5 | 5 |
| CH9 | BLACK | PBk 7 | 17 | 8 | 8 | 5 | 5 |
| GH4 | GREEN | PG 7 | 20 | 8 | 8 | 5 | 4-5 |
| OH4 | ORANGE | PO 67 | 36 | 8 | 6-7 | 4-5 | 3 |
| OM3 | ORANGE | PO 74 | 13 | 7-8 | 6-7 | 4 | 3-4 |
| YM4 | YELLOW | PY 74 | 26 | 7-8 | 6-7 | 4-5 | 3 |
| RM3 | ORANGE RED | PR 168 | 20 | 8 | 8 | 5 | 4-5 |
| YS3 | YELLOW | PY 154 | 33 | 8 | 8 | 5 | 5 |
| OS3 | ORANGE YELLOW | PY 170 | 34 | 8 | 7-8 | 4-5 | 4 |
| YH10 | ORANGE YELLOW | PY 83 | 39 | 7-8 | 6-7 | 4 | 3 |
| RH3 | RED | PR 112 | 31 | 8 | 6 | 4-5 | 3 |
| MH3 | MAGENTA | PR 122 | 19 | 7 | 7-8 | 4 | 4-5 |
| RH6 | RED | PR 254 | 36 | 8 | 8 | 4-5 | 4 |

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.

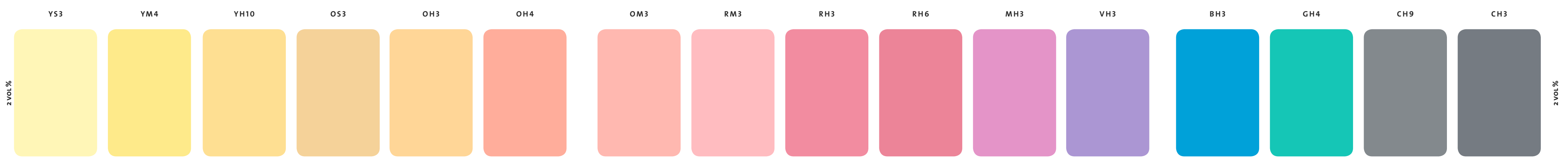
(2) Weather resistance is measured on a five step gray scale, where 1 = very poor weather resistance, 5 = excellent weather resistance.

(3) CPS Color recommends to use only colorants containing inorganic pigments in high alkaline environments and in exterior silicate or silicone based products.

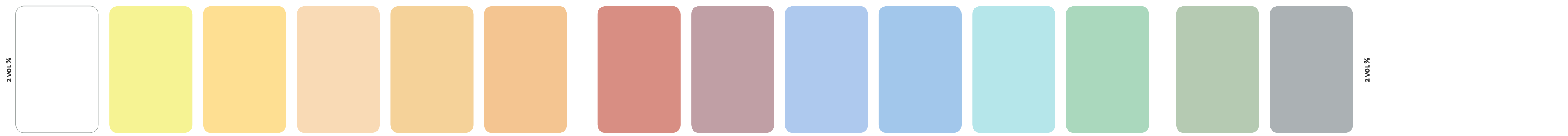
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| | | | | | | | | | | | | | | | |
|-------------------------|------------------------|--------------------------------|--------------------------------|--------------------------------|------------------------|------------------------|-----------------------------|----------------------|----------------------|--------------------------|-----------------------|------------------------|----------------------|-----------------------|------------------------------|
| YS3 | YM4 | YH10 | OS3 | OH3 | OH4 | OM3 | RM3 | RH3 | RH6 | MH3 | VH3 | BH3 | GH4 | CH9 | CH3 |
| Yellow PY 154 33% | Yellow PY 74 26% | Orange Yellow PY 170 39% | Orange Yellow PY 170 34% | Orange Yellow PY 110 30% | Orange PO 67 36% | Orange PO 74 13% | Orange Red PR 168 20% | Red PR 112 31% | Red PR 254 36% | Magenta PR 122 19% | Violet PV 23 8% | Blue PB 15:3 35% | Green PG 7 20% | Black PBk 7 17% | Black Strong PBk 7 29% |



| | | | | | | | | | | | | | | | |
|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| YS3 | YM4 | YH10 | OS3 | OH3 | OH4 | OM3 | RM3 | RH3 | RH6 | MH3 | VH3 | BH3 | GH4 | CH9 | CH3 |
|-----|-----|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|



| | | | | | | | | | | | | | |
|----------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|----------------------------|-------------------------------|-----------------------------------|-----------------------------|---------------------------------|------------------------------|-----------------------------|------------------------------|
| WX11 | YX12 | YX13 | YX14 | YX10 | YX11 | RX10 | RX11 | BX11 | BX10 | GX12 | GX11 | GX10 | CX10 |
| White PW 6 65% | BiVa Yellow PY 184 60% | BiVa Orange PY 184 64% | Zinc Orange PY 216 50% | Oxide Yellow PY 42 52% | Oxide Orange PY 42 52% | Oxide Red PR 101 57% | Oxide Violet PR 101 65% | Ultra Marine Blue PB 29 50% | Cobalt Blue PB 28 64% | Turquoise Green PB 28 48% | Cobalt Green PG 50 59% | Oxide Green PG 17 68% | Oxide Black PBk 33 54% |



| | | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| WX11 | YX12 | YX13 | YX14 | YX10 | YX11 | RX10 | RX11 | BX11 | BX10 | GX12 | GX11 | GX10 | CX10 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

NOVAPINT™ E ORGANIC

CPSCOLOR™
any colour you see

NOVAPINT™ E INORGANIC

CPSCOLOR™ COLORANTS

NOVAPINT™ D

NOVAPINT™ D

The in-plant colorant system for high-performance water-based facade paints and plasters

CPSCOLOR

CPSColor is the leading supplier of integrated tinting systems. Our mission is to help manufacturers to achieve maximum added value on their products. To explore the benefits of integrated tinting systems for your company, please visit us at

www.cpscolor.com

CPSCOLOR™
any colour you see

CPS Color meets the challenges of tinting water-based facade paints and plasters

CPS Color has an extensive knowledge of facade products. With over twenty years of experience in fulfilling the highest demands in terms of water repellence and weather fastness, we are able to meet your requirements in facade tinting.

APPLICATION

CPS Color NOVAPINT™ D is especially recommended for the tinting of water-based building systems. NOVAPINT™ D colorants are used in exterior paints and plasters, based on silicate, silicone or synthetic resin, in all shades.

PROPERTIES

NOVAPINT™ D has minimal impact on viscosity, sagging, hydrophobicity, water permeability, and for interior paints on scrub resistance. All our colorants are calibrated by weight and volume and are suited for use in in-plant tinting systems.

NOVAPINT™ D is based on specially developed formulations and uses a wide range of inorganic pigments. This enables the colorants to generate many color shades in silicate and silicone facade systems. The NOVAPINT™ D colorant range includes hydrophobic colorants for water-based binders, such as emulsion paints, mortars, silicone-emulsions and silicate based media. The colorants do not influence rheology. They offer very good light fastness and weatherability properties, and are suited for all shades, including dark colors.

SOLAR REFLECTION

Dark surfaces heat up more than light ones do. This affects not just their coating but also the strength of the composite system. To avoid this as well as to save energy costs, it is common to apply only light colors.

CPS Color offers an intelligent combination of conventional colorants that have excellent solar heat reflection properties, and an innovative black colorant (D-803) to replace carbon black or iron oxide black. This unique range of colorants enables to formulate dark colors that achieve less heat absorption compared to conventional colorants.

BENEFITS

NOVAPINT™ D colorants – both organic and inorganic – are fully compatible and can be used in combination with other CPS technologies. This mixing of technologies is a perfect tool for creating a customized system, covering a complete paint technology portfolio including water and solvent borne products. NOVAPINT™ D offers a wide color space, cost efficiency, the use of existing POS equipment and compliance with all technical challenges, requirements and regulations.

OUR SERVICES

As the leading supplier of integrated tinting solutions, CPS Color provides excellent service in the set-up of your tinting systems as well as smooth colorant technology conversions. Our technical support includes:

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Colorants

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- TEMACOLOR™ industrial colorants

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- INNOVATINT™ software
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- Color marketing



ANY COLOR YOU SEE

Stringent production controls and processes ensure that all CPSCOLOR™ colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.

Our colorant portfolio includes: Water-borne, Solvent, low and no VOC colorant options for many industries.

NOVAPINT™ D COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT (%) | LIGHT FASTNESS OF PIGMENT ¹⁾ FULL. (1-8) | LIGHT FASTNESS OF PIGMENT ¹⁾ REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT ²⁾ FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT ²⁾ REDUCT. (1-5) |
|---------------------------------------|--------------|-----------------|---------------------------------|---|---|---|---|
| INORGANIC PIGMENT³⁾ | | | | | | | |
| D-102 | YELLOW | PY 53 | 73 | 8 | 8 | 5 | 5 |
| D-104 | YELLOW | PY 184 | 50 | 8 | 8 | 5 | 5 |
| D-105 | YELLOW | PY 184 | 57 | 8 | 8 | 5 | 5 |
| D-106 | YELLOW | PY 184 | 57 | 8 | 8 | 5 | 5 |
| D-100 | OXIDE YELLOW | PY 42 | 58 | 8 | 8 | 5 | 5 |
| D-117 | OXIDE YELLOW | PY 42 | 58 | 8 | 8 | 5 | 5 |
| D-119 | YELLOW | PBR 24 | 65 | 8 | 8 | 5 | 5 |
| D-126 | ORANGE | PY 216 | 57 | 8 | 8 | 5 | 5 |
| D-123 | OXIDE ORANGE | PY 216 | 55 | 8 | 8 | 5 | 5 |
| D-/K-200 | OXIDE RED | PR 101 | 64 | 8 | 8 | 5 | 5 |
| D-220 | OXIDE RED | PR 101 | 58 | 8 | 8 | 5 | 5 |
| D-204 | OXIDE RED | PR 101 | 64 | 8 | 8 | 5 | 5 |
| D-224 | OXIDE RED | PR 101 | 58 | 8 | 8 | 5 | 5 |
| D-606 | VIOLET RED | PV 15 | 60 | 8 | 8 | 4-5 | 4-5 |
| D-905 | BLUE | PB 29 | 49 | 8 | 8 | 5 | 4-5 |
| D-900 | BLUE | PB 28 | 50 | 8 | 8 | 5 | 5 |
| D-907 | BLUE | PB 36 | 50 | 8 | 8 | 5 | 5 |
| D-902 | TURQUOISE | PB 28 | 46 | 8 | 8 | 5 | 5 |
| D-300 | OXIDE GREEN | PG 17 | 70 | 8 | 8 | 5 | 5 |
| D-301 | GREEN | PG 50 | 65 | 8 | 8 | 5 | 5 |
| D-800 | OXIDE BLACK | PBK 33 | 69 | 8 | 8 | 5 | 5 |
| D-802 | OXIDE BLACK | PBK 11 | 48 | 8 | 8 | 5 | 5 |
| D-11 | WHITE | PW 6 | 75 | 8 | 8 | 5 | 5 |
| D-803 | NIR BLACK | PBR 29 | 74 | 8 | 8 | 5 | 5 |
| ORGANIC PIGMENT | | | | | | | |
| D-103 | YELLOW | PY 74 | 42 | 7-8 | 6 | 3 | 2-3 |
| D-107 | YELLOW | PY 154 | 33 | 8 | 8 | 4-5 | 4-5 |
| D-112 | ORANGE | PY 170 | 34 | 7-8 | 7-8 | 4-5 | 4 |
| D-110 | ORANGE | PR 154 | 37 | 8 | 8 | 4-5 | 4-5 |
| D-201 | RED | PR 168 | 36 | 8 | 8 | 5 | 5 |
| D-210 | RED | PR 112 | 45 | 7-8 | 6-7 | 4 | 3 |
| D-203M | RED | PR 122 / PR 168 | 22 | 7-8 / 8 | 6-7 / 8 | 4-5 / 5 | 4-5 / 5 |
| D-213 | PINK | PR 122 | 21 | 7-8 | 6-7 | 4-5 | 4-5 |
| VP-1391 | RED | PV 19 | 28 | 7-8 | 6-7 | 4-5 | 4-5 |
| D-906 | VIOLET | PV 23 | 35 | 7-8 | 6-7 | 4 | 3 |
| D-400 | BLUE | PB 15:3 | 48 | 8 | 8 | 5 | 4-5 |
| D-305 | GREEN | PG 7 | 52 | 8 | 8 | 5 | 4-5 |
| D-500 | BLACK | PBK 7 | 29 | 8 | 8 | 5 | 4-5 |

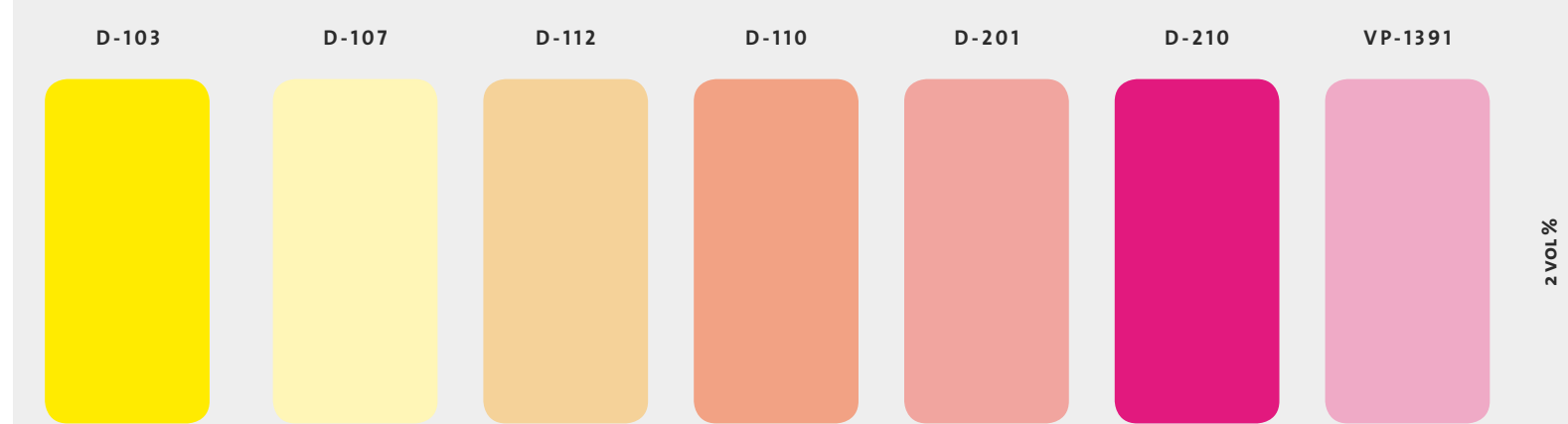
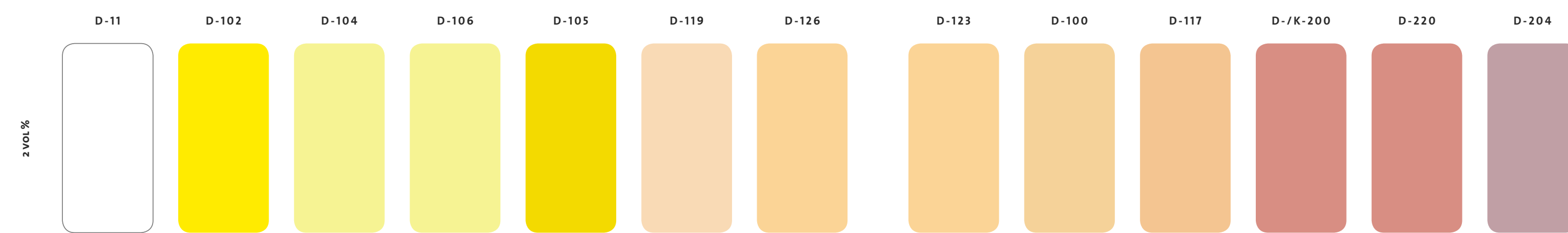
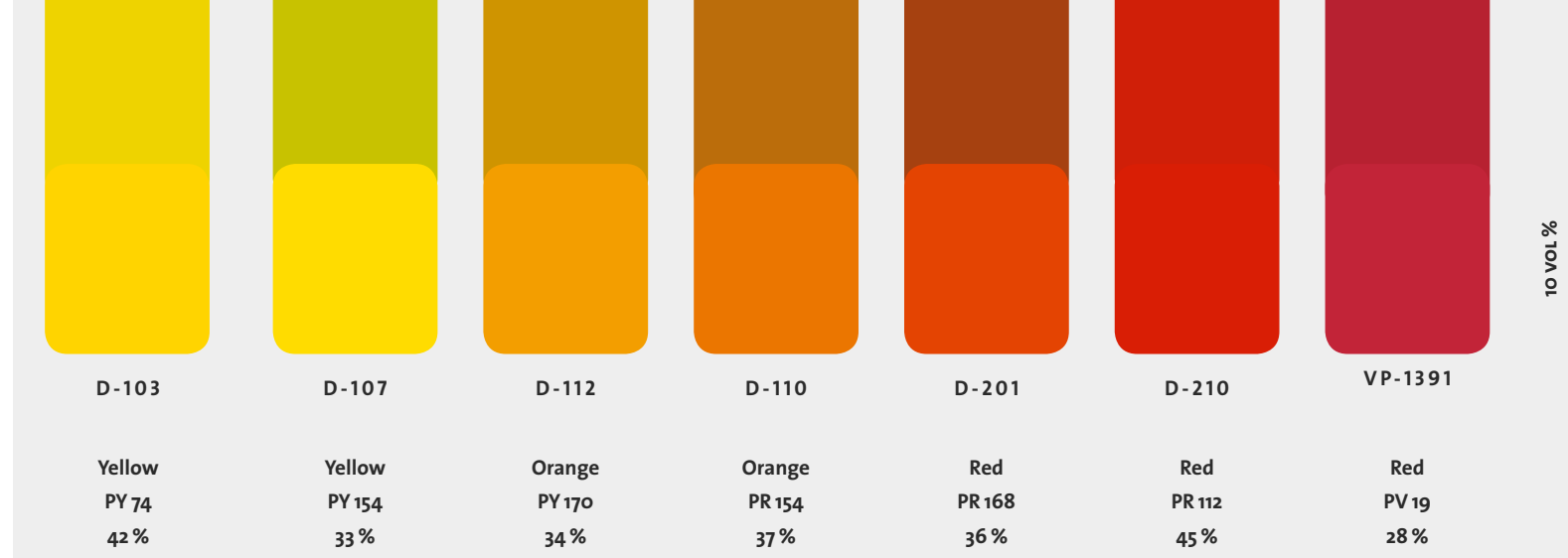
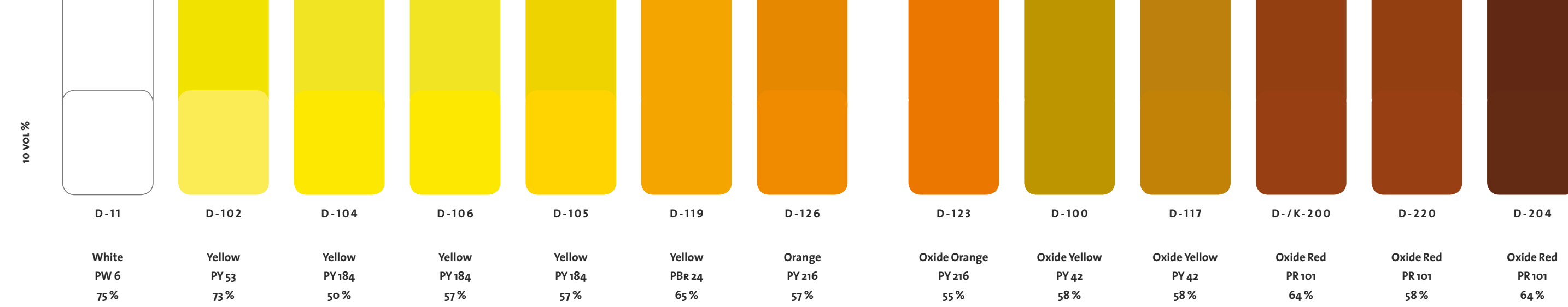
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(2) Weather resistance is measured on a five step gray scale, where 1 = very poor weather resistance, 5 = excellent weather resistance.

(3) CPS Color recommends to use only colorants containing inorganic pigments in high alkaline environments and in exterior silicate or silicone based products.

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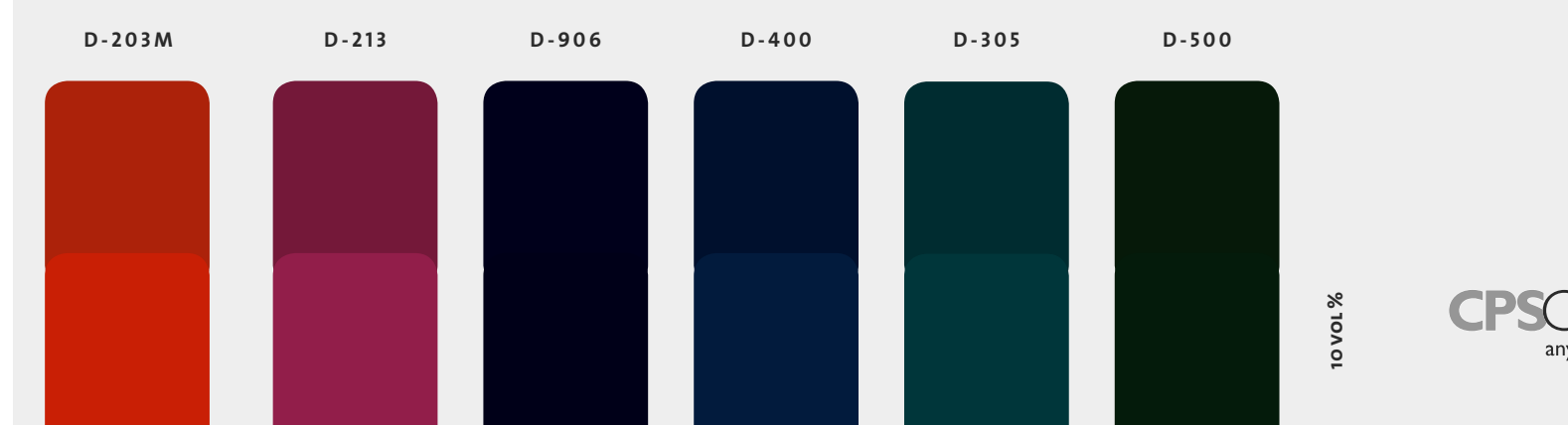
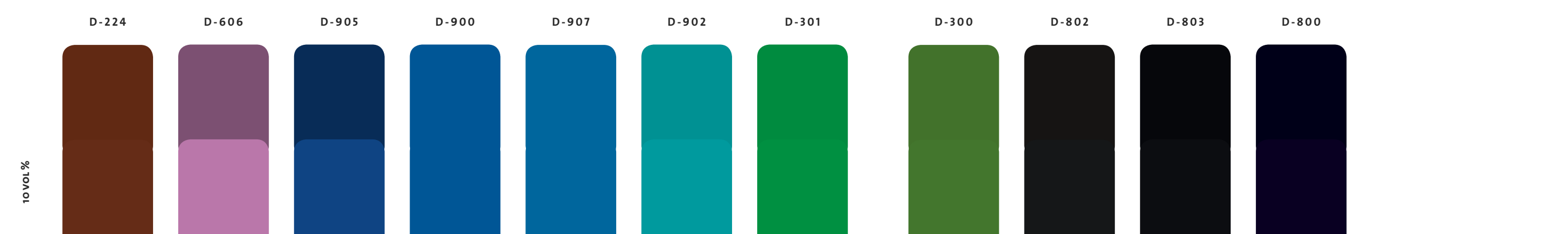
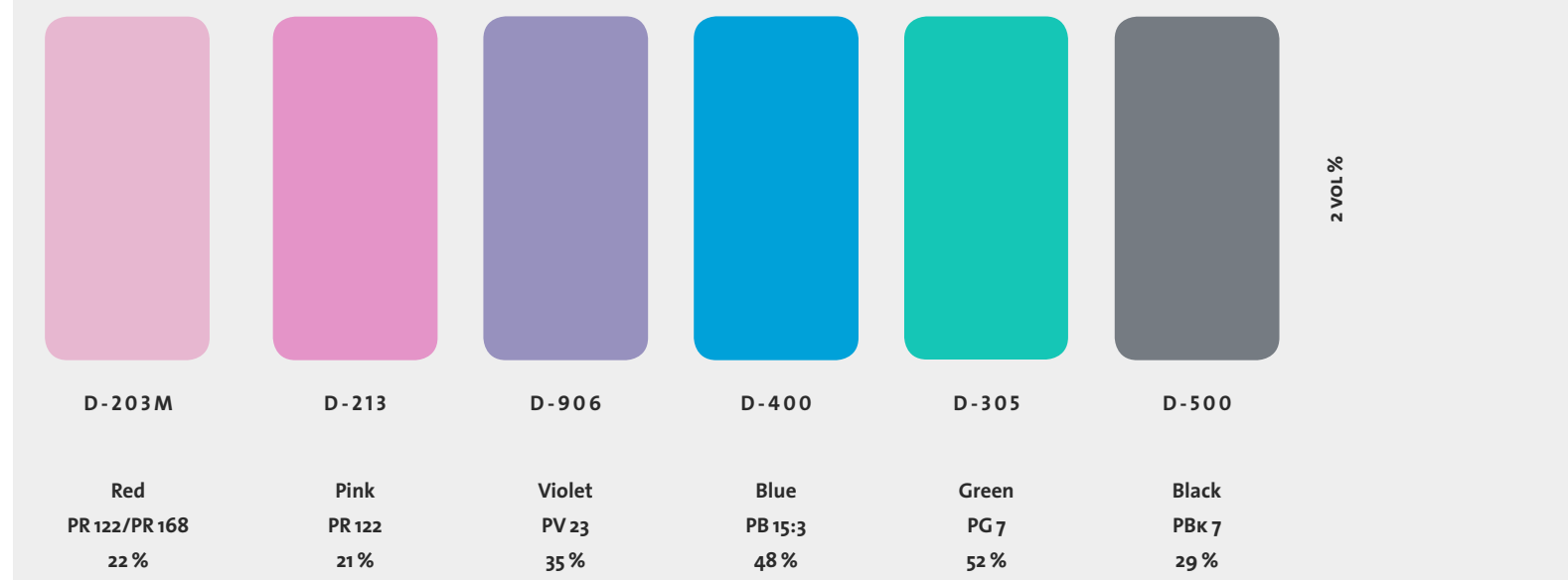
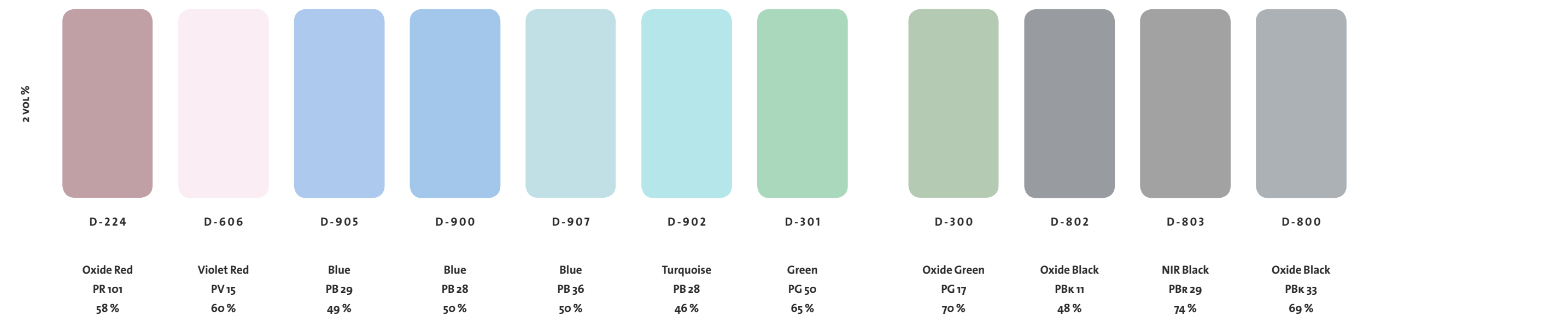


INORGANIC PIGMENT

The colors above have been generated electronically and should therefore not be used for comparison purposes. The color chips are meant to give an impression of the shade.

ORGANIC PIGMENT

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NOVAPINT™ D

CPSCOLOR™ COLORANTS

NOVAPINT™ D
SOLAR REFLECTIVE

NOVAPINT™ D SOLAR REFLECTIVE

The cool colorant system for water-based facade paints and plasters



CPS Color meets the challenges of keeping colored facades cool

In order to create cool facade colors, CPS Color is introducing NOVAPINT™ D SOLAR REFLECTIVE colorants. This 'cool' colorant systems is an intelligent combination of conventional facade colorants that have excellent solar heat reflective properties, and a functional NIR reflective black colorant to replace iron oxide black.

APPLICATION

NOVAPINT™ D SOLAR REFLECTIVE colorants are specially developed for water-based facade paints and plasters. They minimize heat build-up in architectural and decorative paint applications for facades, roofs, window frames and Exterior Insulation Finishing Systems (EIFS).

PROPERTIES

The aim of solar-reflective coatings is to maximize the solar reflectivity of the coated surface. Reflectivity is achieved by the physical back-scattering of solar radiation by pigment particles. This is well-known for the visible range. However, solar radiation does not only comprise visible "light", but also ultraviolet (UV) and near-infrared (NIR), contributing over 50% of the solar energy, see figure 1.

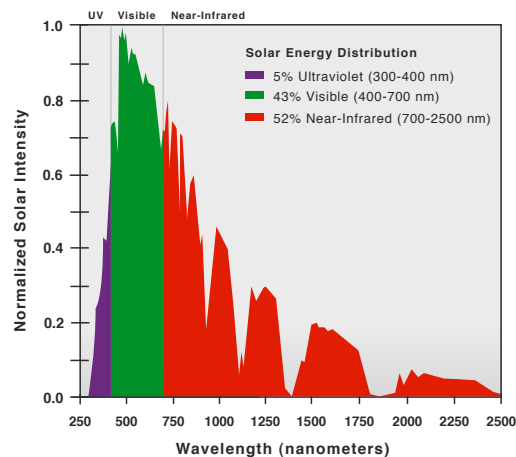


Figure 1: Typical solar radiation spectrum

The amount of total solar energy absorbed by a top coat determines the heat build-up of a coated surface and results in a surface temperature depending on the duration of exposure. To achieve cool facade surfaces, the pigments in the coating, need to reflect as much energy as possible. This reflection ability can be expressed as the Total Solar Reflectance (TSR) value (100% = total reflection; 0% = total absorption). Therefore, pigments with high TSR values show a high reflection combined with low heat build-up, and vice versa.

Pigments with the highest reflection ability are based on TiO₂ white, while pigments with the lowest reflection are based on carbon black (PBk.7). Figure 2 and 3, which you find on the next page of this leaflet, illustrate the reflection curves of different pigmented topcoats and the corresponding heat build-up profiles.

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- NOVAPINT™ water-based facade colorants
- TEMACOLOR™ industrial colorants

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- Worldwide service and customer support
- Color marketing

NOVAPINT™ D SOLAR REFLECTIVE

The cool colorant system for water-based facade paints and plasters

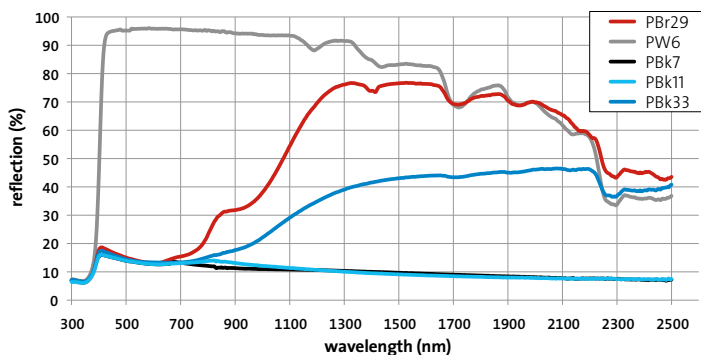


Figure 2: Reflection curves of different pigments

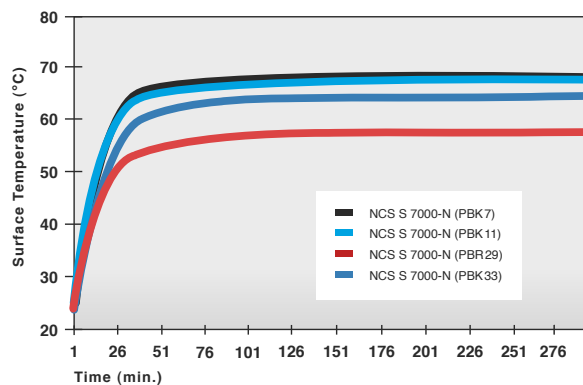


Figure 3: Heat build-up profiles of shade NCS S 7000-N made with different black pigments

NOVAPINT™ D SOLAR REFLECTIVE COLORANTS


| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT (%) | LIGHT FASTNESS OF PIGMENT ¹⁾ FULL. (1-8) | LIGHT FASTNESS OF PIGMENT ¹⁾ REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT ²⁾ FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT ²⁾ REDUCT. (1-5) | TSR ⁴⁾ (%) |
|---------------------|--------------|---------|---------------------------------|---|---|---|---|-----------------------|
| D-11 ³⁾ | WHITE | PW 6 | 75 | 8 | 8 | 5 | 5 | 88 |
| D-100 ³⁾ | OXIDE YELLOW | PY 42 | 58 | 8 | 8 | 5 | 5 | 51 |
| D-117 ³⁾ | OXIDE YELLOW | PY 42 | 58 | 8 | 8 | 5 | 5 | 53 |
| D-102 ³⁾ | YELLOW | PY 53 | 73 | 8 | 8 | 5 | 5 | 67 |
| D-105 ³⁾ | YELLOW | PY 184 | 57 | 8 | 8 | 5 | 5 | 70 |
| D-106 ³⁾ | YELLOW | PY 184 | 57 | 8 | 8 | 5 | 5 | 76 |
| D-126 ³⁾ | ORANGE | PY 216 | 57 | 8 | 8 | 5 | 5 | 66 |
| D-200 ³⁾ | OXIDE RED | PR 101 | 64 | 8 | 8 | 5 | 5 | 50 |
| D-201 | RED | PR 168 | 36 | 8 | 8 | 5 | 5 | 58 |
| D-606 ³⁾ | VIOLET RED | PV 15 | 60 | 8 | 8 | 4-5 | 4-5 | 48 |
| D-300 ³⁾ | OXIDE GREEN | PG 17 | 70 | 8 | 8 | 5 | 5 | 35 |
| D-301 ³⁾ | GREEN | PG 50 | 65 | 8 | 8 | 5 | 5 | 31 |
| D-800 ³⁾ | OXIDE BLACK | PBK 33 | 69 | 8 | 8 | 5 | 5 | 21 |
| D-803 ³⁾ | NIR BLACK | PBR 29 | 74 | 8 | 8 | 5 | 5 | 33 |
| D-902 ³⁾ | TURQUOISE | PB 28 | 46 | 8 | 8 | 5 | 5 | 42 |
| D-900 ³⁾ | BLUE | PB 28 | 50 | 8 | 8 | 5 | 5 | 41 |

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) CPS Color recommends to use only colorants containing inorganic pigments in high alkaline environments and in exterior silicate or silicone based products.
- (4) TSR values (Solar spectrum AM 1.5 according to ASTM G 159-98) at adjusted L value (1/3)

CPSCOLOR™ COLORANTS

COLTEC™ UNIVERSAL



COLTEC™ UNIVERSAL

The benchmark colorant system for universal decorative applications



CPS COLOR

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any color you see

The benchmark colorant system for universal decorative applications

Faced with growing technical and environmental challenges, the paint industry requires colorant solutions that demonstrate proven performance while offering a vast selection of colors. The number and variety of decorative products, such as alkyds and latexes, for both interior and exterior use is growing all the time.

With new products, come new challenges. Technical specifications within the paint industry are increasingly compounded by ever-changing environmental requirements. Stricter regulations are being introduced that apply to the colorants the paint industry uses in their products.

OUR SOLUTION

The complete range of universal COLTEC™ decorative colorants from CPS Color is suitable for use with a variety of latex paints, long oil alkyds, enamels and wood stains.

The pigmentation of COLTEC™ colorants has been formulated to meet the performance needs of decorative paints.

In addition to the high quality pigments for red and yellow, which provide excellent weather resistance for exterior applications, there are additional economical options in the COLTEC™ portfolio to ensure a good price/performance balance.

COLTEC™ products are available in various technologies meeting any tinting requirements:

COLTEC™ B

The technology behind COLTEC™ B colorants is APE free. Propylene glycol is used as a co-solvent assuring efficient functionality and performance in dispensing equipment.

COLTEC™ C

All COLTEC™ C colorants are VOC and APE free, meeting the latest environmental requirements.

MIXED SYSTEMS

COLTEC™ colorants are fully compatible with each other and can be used interchangeably to create a fully customized tinting system. The color experts at CPS Color will work to create a unique system to meet your needs taking in to account:

- Technical performance
- Existing POS equipment
- Required color space
- Future needs
- Budget

ACHIEVING HIGH PERFORMANCE RED AND YELLOW BASES

Attaining optimal quality and hiding performance in the critical color areas (red, yellow and orange) can be challenging. The color experts at CPS Color recommend that paint manufacturers include a yellow and red base offering in their tinting system.

CPS Color offers a red and yellow base paint concentrate in both alkyd and water. These competitively priced color solutions are available in 10 liter pails allowing paint manufacturers a simple and easy solution for producing red and yellow base paints.

CONVERSION SUPPORT

As the only global supplier to engineer and manufacture both colorants and dispensing equipment, CPS Color is the best resource to ensure a smooth colorant technology conversion. The tinting system specialists at CPS Color assist customers in navigating the mine fields of the conversion process including:

- System design, optimization and pigment selection
- Base paint characterization and colorant compatibility
- Color matching and database development
- Equipment compatibility, field conversion and sales support
- Ongoing support for daily operations



ANY COLOR YOU CAN SEE

Stringent production controls and processes ensure that all CPSCOLOR™ colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.

Our colorant portfolio includes: Water borne, Solvent, Low and No VOC colorant options for many industries.

COLTEC™ UNIVERSAL COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|------|--------------|------------------------|----------------------------------|--|--|--|--|--------------------------------|
| KU | WHITE | PW 6 | 60 | 8 | n/a | 5 | n/a | 200 |
| IS | BIVA YELLOW | PY 184 | 65 | 8 | 8 | 4-5 | 4-5 | 200 |
| MS | YELLOW LC | PY 128 | 25 | 7-8 | 7-8 | 4-5 | 4 | 200 |
| QS | YELLOW HC | PY 74 | 27 | 7-8 | 6-7 | 4-5 | 3 | 140 |
| TS | YELLOW OXIDE | PY 42 | 60 | 8 | 8 | 5 | 5 | 180 |
| US | ORANGE | PO 67 | 16 | 8 | 6-7 | 4-5 | 3 | 200 |
| US-N | ORANGE | PO 73 | 20 | 8 | 8 | 4-5 | 4-5 | 200 |
| U2 | ORANGE LC | PR 168 / PY 110 | 19 | 8 | 8 | 5 | 4-5 | 180 |
| NS | RED LC | PR 166 | 7 | 8 | 6-7 | 5 | 3-4 | 200 |
| VS | RED HC | PR 112 | 22 | 8 | 6 | 4-5 | 3 | 180 |
| YS | RED OXIDE | PR 101 | 65 | 8 | 8 | 5 | 5 | 200 |
| BS | MAGENTA | PR 122 | 30 | 7 | 7-8 | 4 | 4-5 | 200 |
| ZS | VIOLET | PV 23 | 10 | 8 | 8 | 5 | 4 | 160 |
| HS | COBALT BLUE | PB 28 | 65 | 8 | 8 | 5 | 5 | 200 |
| LS | BLUE LC | PB 15:1 | 8 | 8 | 8 | 5 | 4-5** | 200 |
| RS | BLUE HC | PB 15:3 | 45 | 8 | 8 | 5 | 4-5** | 200 |
| PS | GREEN | PG 7 | 10 | 8 | 8 | 5 | 4-5** | 200 |
| GS | GREEN OXIDE | PG 17 | 67 | 8 | 8 | 5 | 5 | 200 |
| WS | UMBER | PBK 7 / PY 42 / PR 101 | 25 | 8 | 8 | 5 | 5 | 180 |
| FS | BLACK OXIDE | PBK 11 | 55 | 8 | 8 | 5 | 5 | 180 |
| XS | BLACK LC | PBK 7 | 10 | 8 | 8 | 5 | 5 | 200 |
| AS | BLACK MC | PBK 7 | 20 | 8 | 8 | 5 | 5 | 200 |
| JS | BLACK HC | PBK 7 | 35 | 8 | 8 | 5 | 5 | 200 |

* These values should only be used as guidelines.

** See: Notes to the Technical Data Sheet

| | | | | | | | | | | | | | |
|------------------|-------------------------|-------------------------------|-----------------------------|----------------------------|-------------------------------|------------------------------|---|--------------------------------------|---------------------------|---------------------------|-----------------------------|---------------------------|------------------|
| 10 VOL % / CLEAR | | | | | | | | | | | | | 10 VOL % / CLEAR |
| | KU | IS | MS | QS | TS | US | US-N | U2 | NS | VS | YS | BS | |
| | White PW 6 60 % | BiVa Yellow PY 184 65 % | Yellow LC PY 128 25 % | Yellow HC PY 74 27 % | Yellow Oxide PY 42 60 % | Orange PO 67 16 % | Orange PO 73 20 % | Orange LC PR 168 / PY 110 19 % | Red LC PR 166 7 % | Red HC PR 112 22 % | Red Oxide PR 101 65 % | Magenta PR 122 30 % | |
| 2 VOL % / WHITE | | | | | | | | | | | | | 2 VOL % / WHITE |
| | KU | IS | MS | QS | TS | US | US-N | U2 | NS | VS | YS | BS | |
| | | | | | | | | | | | | | |
| 2 VOL % / WHITE | | | | | | | | | | | | 2 VOL % / WHITE | |
| | ZS | HS | LS | RS | PS | GS | WS | FS | XS | AS | JS | | |
| | Violet PV 23 10 % | Cobalt Blue PB 28 65 % | Blue LC PB 15:1 8 % | Blue HC PB 15:3 45 % | Green PG 7 10 % | Green Oxide PG 17 67 % | Umber PBk 7 / PY 42 / PR 101 25 % | Black Oxide PBk 11 55 % | Black LC PBk 7 10 % | Black MC PBk 7 20 % | Black HC PBk 7 35 % | | |
| 10 VOL % / CLEAR | | | | | | | | | | | | 10 VOL % / CLEAR | |
| | ZS | HS | LS | RS | PS | GS | WS | FS | XS | AS | JS | | |
| | | | | | | | | | | | | | |

COLCTEC™ UNIVERSAL

CPS COLOR™
any color you see

CPSCOLOR™ COLORANTS
HYDRASPERSE™ EU
SOLVASPERSE™ AK

HYDRASPERSE™ EU SOLVASPERSE™ AK

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

CPS COLOR

CPS Color is the leading supplier of advanced tinting systems. Our mission is to help manufacturers to achieve maximum added value on their products. To explore the benefits of advanced tinting systems for your company, please visit us at

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CPSCOLOR™
any color you see

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

CPS Color 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.

The technical challenges faced by the paint industry are increasingly compounded by changing environmental requirements. CPS Color is the leading producer of low VOC colorants in the decorative paint sector. We are expanding this industry leading knowledge to include low VOC technologies for our in-plant portfolio. Solutions for (high solid) solvent-borne paints, which are still an important part of the product mix in many areas both within and outside Europe, are also available. Although the current directives do not impose specific limitations on colorants, CPS Color is working now to stay on top of future trends. This will ensure that our colorants will continue to meet new legal requirements for decorative paints as they arise.

All CPS Color in-plant colorants are controlled both gravimetrically and volumetrically for factory level precision. They are a perfect match with our new Industrial Gravimetric Dispensers (IGD) as well as with our existing volumetric in-plant equipment. 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 WATER BASED SOLUTION: HYDRASPERSE™ EU

HYDRASPERSE™ EU colorants are designed for in-plant production use. Their high color strength and consistency from batch to batch provides a good base for reproducible and economical colors. The colorant range is designed to ensure a good price/performance balance with a number of economical colorants for a lower overall tint cost.

High performance colorants are available within the HYDRASPERSE™ EU product line to satisfy even the most premium quality requirements needed for exterior use. The vast colorant selection of HYDRASPERSE™ EU contains 20 high concentrated colorants ensuring that a wide color space is covered. HYDRASPERSE™ EU colorants have a low VOC content (<1 gram/liter) and an effective APE free surfactant system.

OUR SOLVENT BASED SOLUTION: SOLVASPERSE™ AK

SOLVASPERSE™ AK is the only commercially available colorant range specifically developed for the tinting of various long and medium-oil decorative alkyd paints, for both interior and exterior applications. SOLVASPERSE™ AK colorants are formulated with alkyd resin and aromatic-free solvents. The reduced VOC content (< 300 gram/liter) 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 such as weather resistance and UV barrier properties are also ensured.

CONVERSION SUPPORT

As the only global supplier to engineer and manufacture both colorants and dispensing equipment, CPS Color is the best resource to ensure a smooth colorant technology conversion. The tinting system specialists at CPS Color assist customers in navigating the mine fields of the conversion process including:

- System design, optimization and pigment selection
- Base paint characterization and colorant compatibility
- Color matching and database development
- Equipment compatibility, field conversion and sales support
- Ongoing support for daily operations



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Our colorant portfolio includes: Water-borne, Solvent, Low and No VOC colorant options for many industries.

HYDRASPERSE™ EU COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|------|------------------|---------|----------------------------------|--|--|--|--|--------------------------------|
| EW11 | WHITE | PW 6 | 72 | 8 | n/a | 5 | n/a | 200 |
| EYE3 | BIVA YELLOW | PY 184 | 58 | 8 | 8 | 4-5 | 4-5 | 200 |
| EYE2 | YELLOW EXT. | PY 138 | 51 | 8 | 8 | 4-5 | 4 | 200 |
| EYE1 | YELLOW | PY 74 | 51 | 7-8 | 6-7 | 4-5 | 3 | 140 |
| EXY1 | OXIDE YELLOW | PY 42 | 65 | 8 | 8 | 5 | 5 | 180 |
| EXY2 | OXIDE ORANGE | PY 42 | 54 | 8 | 8 | 5 | 5 | 180 |
| EOR1 | ORANGE | PO 74 | 50 | 7-8 | 6-7 | 4 | 3-4 | 160 |
| ERE2 | RED EXT. | PR 168 | 35 | 8 | 8 | 5 | 4-5 | 180 |
| ERE3 | RED INT. | PR 112 | 46 | 8 | 6 | 4-5 | 3 | 180 |
| ERE1 | RED | PR 254 | 40 | 8 | 8 | 4-5 | 4 | 200 |
| EXR1 | OXIDE RED | PR 101 | 66 | 8 | 8 | 5 | 5 | 200 |
| EMA1 | MAGENTA | PR 122 | 29 | 7 | 7-8 | 4 | 4-5 | 200 |
| EXR2 | OXIDE VIOLET | PR 101 | 64 | 8 | 8 | 5 | 5 | 200 |
| EV11 | VIOLET | PV 23 | 25 | 8 | 8 | 5 | 4 | 160 |
| EBL2 | ULTRAMARINE BLUE | PB 29 | 54 | 8 | 8 | 4-5 | 4-5 | 200 |
| EBL1 | BLUE | PB 15:3 | 44 | 8 | 8 | 5 | 5 | 200 |
| EXG1 | OXIDE GREEN | PG 17 | 67 | 8 | 8 | 5 | 5 | 200 |
| EGR1 | GREEN | PG 7 | 50 | 8 | 8 | 5 | 4-5** | 200 |
| EBK2 | INORGANIC BLACK | PBk 11 | 54 | 8 | 8 | 5 | 5 | 180 |
| EBK1 | BLACK | PBk 7 | 41 | 8 | 8 | 5 | 5 | 200 |

SOLVASPERSE™ AK COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|------|--------------------------|---------|----------------------------------|--|--|--|--|--------------------------------|
| AWH1 | WHITE | PW 6 | 62 | 8 | n/a | 5 | n/a | 200 |
| AYE2 | BIVA YELLOW | PY 184 | 53 | 8 | 8 | 4-5 | 4-5 | 200 |
| AYE1 | YELLOW | PY 74 | 43 | 7-8 | 6-7 | 4-5 | 3 | 140 |
| AXY1 | OXIDE YELLOW | PY 42 | 58 | 8 | 8 | 5 | 5 | 180 |
| AOR1 | ORANGE | PO 67 | 41 | 8 | 6-7 | 4-5 | 3 | 200 |
| ARE1 | DPP RED | PR 254 | 27 | 8 | 8 | 4-5 | 4 | 200 |
| ARE2 | RED | PR 112 | 40 | 8 | 6 | 4-5 | 3 | 180 |
| AXR1 | RED OXIDE | PR 101 | 62 | 8 | 8 | 5 | 5 | 200 |
| AMA1 | MAGENTA | PR 122 | 21 | 7 | 7-8 | 4 | 4-5 | 200 |
| AV11 | VIOLET HC | PV 23 | 22 | 8 | 8 | 5 | 4 | 160 |
| ABL1 | BLUE | PB 15:4 | 27 | 8 | 8 | 5 | 4-5** | 200 |
| AGR1 | GREEN HC | PG 7 | 30 | 8 | 8 | 5 | 4-5** | 200 |
| ABK1 | BLACK HC | PBk 7 | 40 | 8 | 8 | 5 | 5 | 200 |
| ATXY | TRANSPARENT OXIDE YELLOW | PY 42 | 40 | 8 | 8 | 5 | 5 | 160 |
| ATXR | TRANSPARENT OXIDE RED | PR 101 | 40 | 8 | 8 | 5 | 5 | 200 |

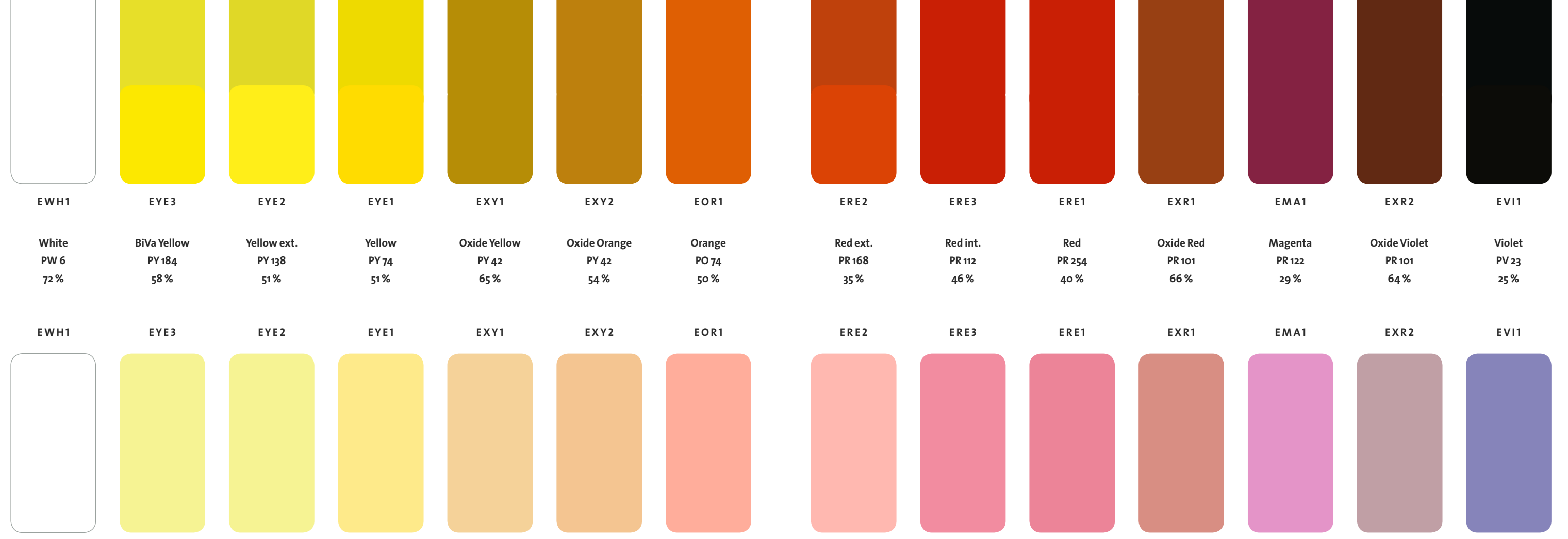
* These values should only be used as guidelines.

** See: Notes to the Technical Data Sheet

HYDRASPERSE™ EU

10 WEIGHT %

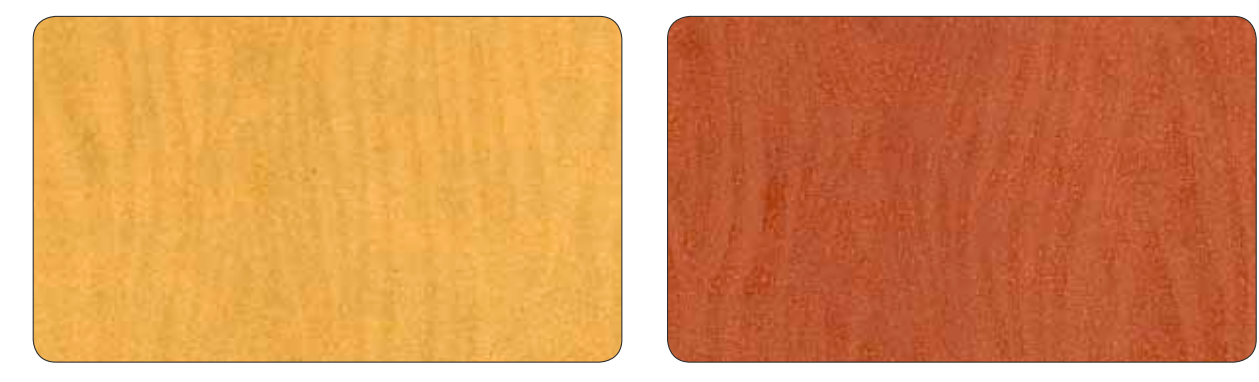
2 WEIGHT %



CPS COLOR™
any color you see

SOLVASPERSE™ AK

5 WEIGHT %




2 WEIGHT %

5 WEIGHT %

10 WEIGHT %

CPSCOLOR™ COLORANTS

TEMACOLOR™ S



TEMACOLOR™ S

The environmentally friendly colorant solution for solvent borne industrial coatings



CPS COLOR

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CPSCOLOR™
any color you see

The environmentally friendly colorant solution for solvent borne industrial coatings

CHALLENGES TO THE INDUSTRIAL COATINGS MARKET

Faced with increasingly strict environmental regulations, industrial coatings manufacturers require a colorant system with the lowest possible VOC content. They also need better hiding options – especially in the yellow, orange and red areas. Higher pigment content within colorants not only reduces the amount of VOC's used, but also reduces the total cost and overall effect on the coating properties.

OUR SOLUTION

TEMACOLOR™ s colorant technology for solvent borne industrial coatings has been designed to meet the strict requirements of future VOC regulations. The VOC-content of TEMACOLOR™ s colorants is less than 350 grams per liter, and the solvents are aromatic free.

The binder in TEMACOLOR™ s technology is compatible with typical resin types used for solvent borne industrial coatings. It is also compatible with long oil alkyds.

The pigmentation of TEMACOLOR™ s colorants has been formulated to meet the needs of modern industrial coatings. The pigment load has been maximized to enable the least amount of colorant add while ensuring better hiding. This minimizes both the effect on the properties of the coatings and the cost of colorant addition.

CONVERSION SUPPORT

As the only global supplier to engineer and manufacture both colorants and dispensing equipment, CPS Color is the best resource to ensure a smooth colorant technology conversion. The tinting system specialists at CPS Color assist customers in navigating the mine fields of the conversion process including:

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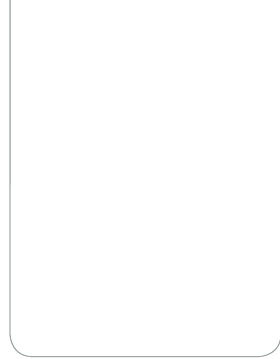
TEMACOLOR™ S COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|------|---------------|-----------------|----------------------------------|--|--|--|--|--------------------------------|
| TBF | WHITE | PW 6 | 70 | 8 | n/a | 5 | n/a | 200 |
| TAF | CITRON YELLOW | PY 138 / PY 184 | 44 | 8 / 8 | 8 / 8 | 4-5 / 4-5 | 4 / 4-5 | 200 |
| TAP | HONEY YELLOW | PBR 24 | 70 | 8 | 8 | 4-5 | 4-5 | 200 |
| TAM | YELLOW OXIDE | PY 42 | 56 | 8 | 8 | 5 | 5 | 180 |
| TEP | ORANGE YELLOW | PY 139 | 29 | 8 | 8 | 4 | 3-4 | 200 |
| TEM | ORANGE | PO 36 | 27 | 8 | 7-8 | 5 | 4-5 | 160 |
| TIM | RED | PR 254 | 26 | 8 | 8 | 5 | 4-5 | 200 |
| TIF | RED | PR 254 | 28 | 8 | 8 | 4-5 | 4 | 200 |
| TEF | RED OXIDE | PR 101 | 65 | 8 | 8 | 5 | 5 | 200 |
| TIP | MAGENTA | PR 122 | 13 | 7 | 7-8 | 4 | 4-5 | 200 |
| TOM | BORDEAUX | PV 19 | 14 | 7 | 7-8 | 4 | 4 | 200 |
| TOP | VIOLET | PV 23 | 8 | 8 | 8 | 5 | 4 | 160 |
| TOF | BLUE | PB 15:4 | 19 | 8 | 8 | 5 | 4-5** | 200 |
| TUF | GREEN | PG 7 | 24 | 8 | 8 | 5 | 4-5** | 200 |
| TNP | BLACK | PBK 7 | 4 | 8 | 8 | 5 | 5 | 200 |
| TNF | BLACK | PBK 7 | 24 | 8 | 8 | 5 | 5 | 200 |
| TNM | BLACK | PBK 7 | 13 | 8 | 8 | 5 | 5 | 200 |

* These values should only be used as guidelines.

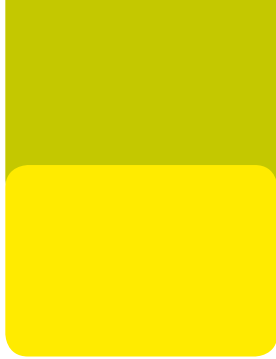
** See: Notes to the Technical Data Sheet

10 VOL % / CLEAR



TBF

White
PW 6
70%



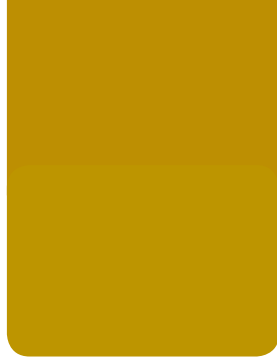
TAF

Citron Yellow
PY 138 / PY 184
44%



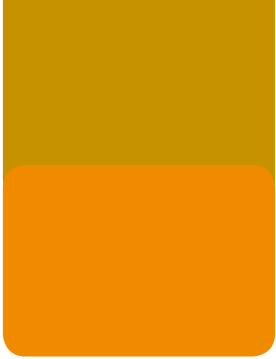
TAP

Honey Yellow
PBr 24
70%



TAM

Yellow Oxide
PY 42
56%



TEP

Orange Yellow
PY 139
29%



TEM

Orange
PO 36
27%



TIM

Red
PR 254
26%



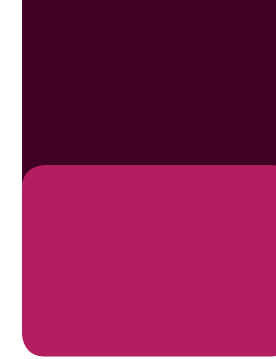
TIF

Red
PR 254
28%



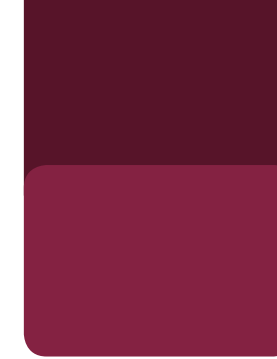
TEF

Red Oxide
PR 101
65%



TIP

Magenta
PR 122
13%

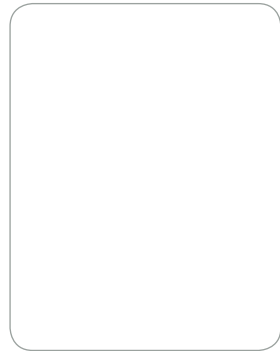


TOM

Bordeaux
PV 19
14%

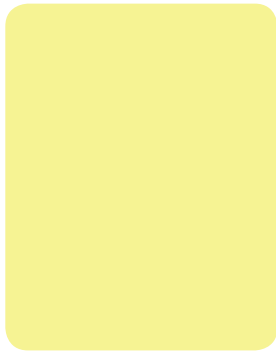
10 VOL % / CLEAR

2 VOL % / WHITE



TBF

White
PW 6
70%



TAF

Citron Yellow
PY 138 / PY 184
44%



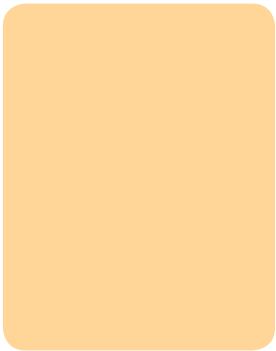
TAP

Honey Yellow
PBr 24
70%



TAM

Yellow Oxide
PY 42
56%



TEP

Orange Yellow
PY 139
29%



TEM

Orange
PO 36
27%



TIM

Red
PR 254
26%



TIF

Red
PR 254
28%



TEF

Red Oxide
PR 101
65%



TIP

Magenta
PR 122
13%



TOM

Bordeaux
PV 19
14%

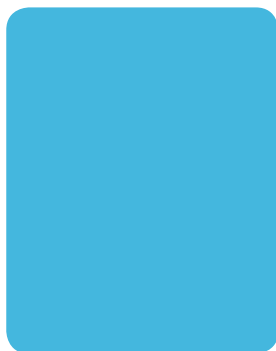
2 VOL % / WHITE

2 VOL % / WHITE



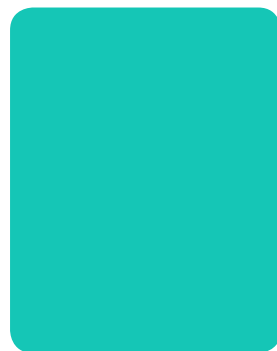
TOP

Violet
PV 23
8%



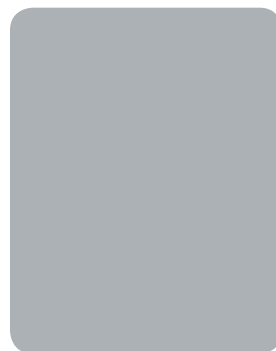
TOF

Blue
PB 15:4
19%



TUF

Green
PG 7
24%



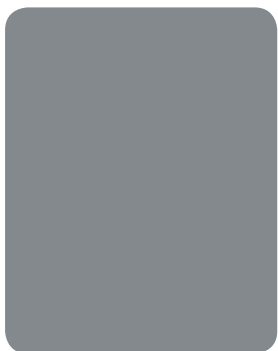
TNP

Black
PBK 7
4%



TNF

Black
PBK 7
24%



TNM

Black
PBK 7
13%

2 VOL % / WHITE

10 VOL % / CLEAR



TOP

Violet
PV 23
8%



TOF

Blue
PB 15:4
19%



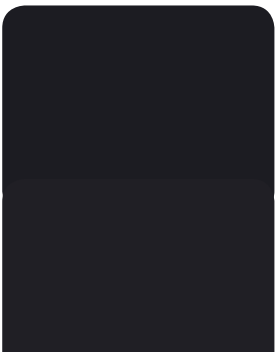
TUF

Green
PG 7
24%



TNP

Black
PBK 7
4%



TNF

Black
PBK 7
24%



TNM


Black
PBK 7
13%

10 VOL % / CLEAR

TEMACOLOR™ S

CPSCOLOR™ COLORANTS

TEMACOLOR™ T



TEMACOLOR™ T

The colorant system for
high technical
performance solvent
borne industrial coatings



CPS COLOR

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CPSCOLOR™
any color you see

The colorant system for high technical performance solvent borne industrial coatings

SOUND TECHNOLOGY

Paint manufacturers need to be able to rely on their colorant systems and individual colorants to provide color reproducibility, smooth functionality and technical stability while having minimum effect on the properties of the final coating. Performance characteristics such as resistance to weather, chemicals and heat must be excellent.

OUR SOLUTION

TEMACOLOR™ T colorant technology is compatible with typical resin types used in solvent borne industrial coatings. The colorants contain binder and aromatic solvents that offer a maximum VOC content of 600 grams per liter. TEMACOLOR™ T is market leading colorant technology with proven reliability and exceptional functionality.

The pigmentation of TEMACOLOR™ T has been formulated to meet the high technical performance needs of solvent borne 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™ T portfolio to ensure a good price performance balance. The vast colorant selection also ensures that the entire color space is covered.

CONVERSION SUPPORT

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Our colorant portfolio includes: Water borne, Solvent, Low and No VOC colorant options for many industries.

TEMACOLOR™ T COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|------|----------------------|---------|----------------------------------|--|--|--|--|--------------------------------|
| 25 | WHITE | PW 6 | 69 | 8 | n/a | 5 | n/a | 200 |
| 32 | CITRON YELLOW | PY 138 | 30 | 8 | 8 | 4-5 | 4 | 200 |
| 81 | CITRON YELLOW STRONG | PY 138 | 43 | 8 | 8 | 4-5 | 4 | 200 |
| 70 | CITRON YELLOW | PY 74 | 29 | 7-8 | 6-7 | 4-5 | 3 | 140 |
| 33 | ORANGE YELLOW | PY 83 | 16 | 7-8 | 6-7 | 4 | 3 | 200 |
| 28 | HONEY YELLOW | PBR 24 | 69 | 8 | 8 | 4-5 | 4-5 | 200 |
| 22 | OXIDE YELLOW | PY 42 | 56 | 8 | 8 | 5 | 5 | 180 |
| 26 | ORANGE | PO 36 | 15 | 8 | 7-8 | 5 | 4-5 | 160 |
| 71 | RED | PR 112 | 35 | 8 | 6 | 4-5 | 3 | 180 |
| 35 | RED | PR 254 | 40 | 8 | 8 | 4-5 | 4 | 200 |
| 74 | RUBINE | PR 48:4 | 25 | 7 | 6 | - | 2 | 200 |
| 31 | OXIDE RED | PR 101 | 65 | 8 | 8 | 5 | 5 | 200 |
| 62 | MAGENTA | PR 122 | 12 | 7 | 7-8 | 4 | 4-5 | 200 |
| 29 | BORDEAUX | PV 19 | 17 | 7 | 7-8 | 4 | 4 | 200 |
| 67 | VIOLET | PV 23 | 12 | 8 | 8 | 5 | 4 | 160 |
| 23 | BLUE | PB 15:4 | 14 | 8 | 8 | 5 | 4-5** | 200 |
| 30 | BLUE | PB 15:6 | 25 | 8 | 8 | 5 | 4-5** | 200 |
| 24 | GREEN | PG 7 | 16 | 8 | 8 | 5 | 4-5** | 200 |
| 34 | BLACK | PBK 7 | 4 | 8 | 8 | 5 | 5 | 200 |
| 21 | BLACK STRONG | PBK 7 | 24 | 8 | 8 | 5 | 5 | 200 |
| 60 | DEEP BLACK | PBK 7 | 14 | 8 | 8 | 5 | 5 | 200 |

* These values should only be used as guidelines.

** See: Notes to the Technical Data Sheet

| | | | | | | | | | | | |
|-----------------------------|---------------------------------|--|--------------------------------|--------------------------------|--------------------------------|-------------------------------|-------------------------|-------------------------------|-----------------------------|---------------------------|------------------|
| 10 VOL % / CLEAR | | | | | | | | | | | 10 VOL % / CLEAR |
| 25 | 32 | 81 | 70 | 33 | 28 | 22 | 26 | 71 | 35 | 74 | |
| White PW 6 69 % | Citron Yellow PY 138 30 % | Citron Yellow Strong PY 138 43 % | Citron Yellow PY 74 29 % | Orange Yellow PY 83 16 % | Honey Yellow PBR 24 69 % | Oxide Yellow PY 42 56 % | Orange PO 36 15 % | Red PR 112 35 % | Red PR 254 40 % | Rubine PR 48:4 25 % | |
| 25 | 32 | 81 | 70 | 33 | 28 | 22 | 26 | 71 | 35 | 74 | |
| | | | | | | | | | | | 2 VOL % / WHITE |
| 31 | 62 | 29 | 67 | 23 | 30 | 24 | 34 | 21 | 60 | | 2 VOL % / WHITE |
| Oxide Red PR 101 65 % | Magenta PR 122 12 % | Bordeaux PV 19 17 % | Violet PV 23 12 % | Blue PB 15:4 14 % | Blue PB 15:6 25 % | Green PG 7 16 % | Black PBK 7 4 % | Black Strong PBK 7 24 % | Deep Black PBK 7 14 % | | |
| 31 | 62 | 29 | 67 | 23 | 30 | 24 | 34 | 21 | 60 | | |
| | | | | | | | | | | | |
| 10 VOL % / CLEAR | | | | | | | | | | | 10 VOL % / CLEAR |

TEMACOLOR™ T

CPSCOLOR™ COLORANTS

TEMACOLOR™ W



TEMACOLOR™ W

The premier colorant
system for water borne
industrial coatings



CPS COLOR

CPS Color is the leading supplier of advanced tinting systems. Our mission is to help manufacturers to achieve maximum added value on their products. To explore the benefits of advanced tinting systems for your company, please visit us at

www.cpscolor.com

CPSCOLOR™
any color you see

The premier colorant system for water borne industrial coatings

TECHNOLOGY FOR WATER BORNE 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 borne industrial coatings.

Until now, the best options have been decorative 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 decorative systems are also not able to fulfill the specific pigment and fastness property needs required of industrial coatings.

OUR SOLUTION

CPS Color has developed TEMACOLOR™ W technology to meet the specific tinting needs of water borne 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 borne 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 decorative water borne paints and are therefore universally compatible with all water borne products.

CONVERSION SUPPORT

As the only global supplier to engineer and manufacture both colorants and dispensing equipment, CPS Color is the best resource to ensure a smooth colorant technology conversion. The tinting system specialists at CPS Color assist customers in navigating the mine fields of the conversion process including:

- System design, optimization and pigment selection
- Base paint characterization and colorant compatibility
- Color matching and database development
- Equipment compatibility, field conversion and sales support
- Ongoing support for daily operations



ANY COLOR YOU CAN SEE

Stringent production controls and processes ensure that all CPSCOLOR™ colorants are manufactured to rigid specifications for color shade, strength and rheology. The end result is assured color accuracy and reproducibility.

Our colorant portfolio includes: Water borne, Solvent, Low and No VOC colorant options for many industries.

TEMACOLOR™ W COLORANTS

| NAME | COLOR | PIGMENT | PIGMENT CONTENT OF COLORANT* (%) | LIGHT FASTNESS OF PIGMENT* FULL. (1-8) | LIGHT FASTNESS OF PIGMENT* REDUCT. (1-8) | WEATHER RESISTANCE OF PIGMENT* FULL. (1-5) | WEATHER RESISTANCE OF PIGMENT* REDUCT. (1-5) | HEAT FASTNESS OF PIGMENT* (°C) |
|------|----------------------|---------|----------------------------------|--|--|--|--|--------------------------------|
| WX9 | WHITE | PW 6 | 65 | 8 | n/a | 5 | n/a | 200 |
| YZ9 | YELLOW OPAQUE | PY 184 | 45 | 7-8 | 7-8 | 4-5 | 4-5 | 200 |
| YH9 | YELLOW | PY 138 | 45 | 8 | 8 | 4-5 | 4 | 200 |
| YS9 | YELLOW STRONG | PY 74 | 38 | 7-8 | 6-7 | 4-5 | 3 | 140 |
| YS8 | ORANGE YELLOW STRONG | PY 83 | 32 | 7-8 | 6-7 | 4 | 3 | 200 |
| YX9 | OXIDE YELLOW | PY 42 | 55 | 8 | 8 | 5 | 5 | 180 |
| YX8 | OXIDE ORANGE | PY 42 | 52 | 8 | 8 | 5 | 5 | 180 |
| YR9 | ORANGE YELLOW | PY 110 | 34 | 7 | 8 | 4-5 | 5 | 200 |
| OH9 | ORANGE | PO 73 | 25 | 8 | 8 | 4-5 | 4-5 | 200 |
| OH8 | ORANGE | PO 36 | 34 | 8 | 7-8 | 5 | 4-5 | 160 |
| RS9 | RED STRONG | PR 112 | 37 | 8 | 6 | 4-5 | 3 | 180 |
| RH9 | RED | PR 254 | 35 | 8 | 8 | 4-5 | 4 | 200 |
| RX9 | OXIDE RED | PR 101 | 55 | 8 | 8 | 5 | 5 | 200 |
| MH9 | MAGENTA | PR 122 | 23 | 7 | 7-8 | 4 | 4-5 | 200 |
| VH9 | VIOLET | PV 23 | 6 | 8 | 8 | 5 | 4 | 160 |
| BH9 | BLUE | PB 15:3 | 40 | 8 | 8 | 5 | 4-5** | 200 |
| GH9 | GREEN | PG 7 | 35 | 8 | 8 | 5 | 4-5** | 200 |
| CL9 | BLACK WEAK | PBk 7 | 4 | 8 | 8 | 5 | 5 | 200 |
| CH9 | BLACK STRONG | PBk 7 | 16 | 8 | 8 | 5 | 5 | 200 |

* These values should only be used as guidelines.

** See: Notes to the Technical Data Sheet

| | | | | | | | | | | | | |
|------------------|-----------------------|---------------------------------|--------------------------|--------------------------------|---------------------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------|-------------------------|------------------------------|------------------|
| 10 VOL % / CLEAR | | | | | | | | | | | | 10 VOL % / CLEAR |
| | WX9 | YZ9 | YH9 | YS9 | YS8 | YX9 | YX8 | YR9 | OH9 | OH8 | RS9 | |
| | White PW 6 65 % | Yellow Opaque PY 184 45 % | Yellow PY 138 45 % | Yellow Strong PY 74 38 % | Orange Yellow Strong PY 83 32 % | Oxide Yellow PY 42 55 % | Oxide Orange PY 42 52 % | Orange Yellow PY 110 34 % | Orange PO 73 25 % | Orange PO 36 34 % | Red Strong PR 112 37 % | |
| 2 VOL % / WHITE | | | | | | | | | | | | 2 VOL % / WHITE |
| | WX9 | YZ9 | YH9 | YS9 | YS8 | YX9 | YX8 | YR9 | OH9 | OH8 | RS9 | |

| | | | | | | | | | |
|------------------|-----------------------|-----------------------------|---------------------------|------------------------|-------------------------|-----------------------|----------------------------|-------------------------------|------------------|
| 2 VOL % / WHITE | | | | | | | | | 2 VOL % / WHITE |
| | RH9 | RX9 | MH9 | VH9 | BH9 | GH9 | CL9 | CH9 | |
| | Red PR 254 35 % | Oxide Red PR 101 55 % | Magenta PR 122 23 % | Violet PV 23 6 % | Blue PB 15:3 40 % | Green PG 7 35 % | Black Weak PBk 7 4 % | Black Strong PBk 7 16 % | |
| 10 VOL % / CLEAR | | | | | | | | | 10 VOL % / CLEAR |
| | RH9 | RX9 | MH9 | VH9 | BH9 | GH9 | CL9 | CH9 | |

TEMACOLOR™ W

COROB™ InnovaTint

COROB™ InnovaTint Complete Tinting Control



COROB™ InnovaTint



placing order

Manage your tinting process more effectively at every level while enhancing customer satisfaction

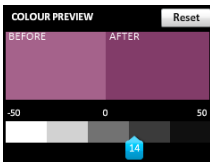
Easy to use. Easy to navigate.

- Innovative, intuitive, user-friendly graphical interface makes it easy to complete orders
- Features such as visual colorant level warnings enable you to continuously monitor the machine status

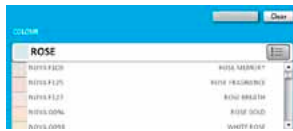


colorant levels

- Shopping cart management for optimized customer service
- Barcode-driven user interface minimizes dispensing errors
- Simple slider option to adjust colors
- Flexible color and product search bars
- Work on a single page without pop-ups
- Fill your orders from remote locations and send e-mail notifications
- Integrated manual and TeamViewer® connection
- Select your visual look from the available light and dark theme's



color slider



color search

corob™ InnovaTint's features and key tinting functions have been designed to perform and adapt to changing needs, prevent errors and improve efficiency.

Stay ahead of the competition with tinting analysis

- Serve repeat customers more efficiently by tracking past and repeat orders.
- Better understand color trends by analyzing data on colorants sold and color popularity.
- Real time updating of data files allows for the capture and sharing of custom formulas across the paint company network.
- Real time customer management system with complete order history can also be shared across the network.

corob™ InnovaTint provides you with the market data you need, such as customer details, buying behavior, store performance statistics (e.g. products sold, most popular colors) all while enabling you to share real time information between the stores.



Share the product knowledge

COROB™ InnovaTint software greatly enhances the customer experience and makes information sharing a snap. Product details, marketing initiatives and customer data is easily distributed across the company via information pages within the program. Up-to-date information regarding products, orders and customers can be shared and viewed in real time by all store employees.

Checking product data, ensuring order accuracy and advising customers at the store is easier than ever.

Get what you need

- Fully customizable user interface graphics to support your brand look and feel
- Additional languages available upon request



colorant refill detail

Bring your business up to date

State-of-the-art COROB™ InnovaTint software utilizes the latest innovations and technology available in the tinting business. Its flexible new platform allows for future developments to be easily incorporated as updates. Compatibility of software with newer machine technology and future software support is assured.

COROB™ InnovaTint is a smart investment. It can grow with your business as needs change.

The perfect match

corob™ InnovaTint software is designed to work in harmony with CPS Color tinting equipment. Communication between the software and the equipment is fast and reliable.

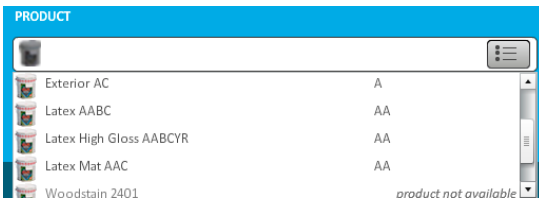
Secure your software

corob™ InnovaTint User Account Control –system prevents misuse of the software by keeping unauthorized users out, and grants limited rights based on access group privileges. User's, for example, can be monitored on their performance.

Choose the InnovaTint version that's right for you

1. Basic

- Simple and easy to use user interface for everyday tinting
- Support for manual machines
- Fast search capabilities
- Customized pricing option for store owners
- Visual system guidance for better service and on screen message notification to prevent and minimize errors
- Formula modification feature for improved and flexible customer support
- Optional on line help
- Formula history
- Create your own labels and e-mail communication with new EasyPrint and EasyMail solutions



product search



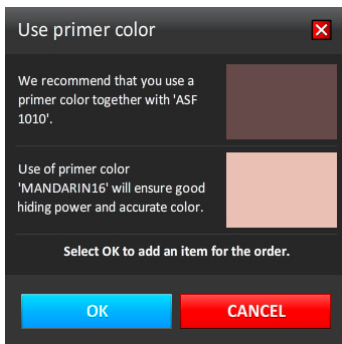
error messages

2. Professional (in addition to Basic)

- Customizable user interface
- Save multiple items in one order
- Multiple banners for advertisements
- Supports most spectrophotometers used for color searches
- Store and track individual customer purchase history
- Interactive page capability provides a fast and easy way to distribute product and customer information
- Barcode driven user interface to match all needs, from refilling, order creation and validation to find returning customer
- Find closest color and evaluate colors with their matching harmonies
- Categorize products to easy to find groups

3. Ultimate (in addition to Basic and Professional)

- Real time updating of formula database
- State-of-the-art matching function for accurate and optimized color results
- Warehouse management for colorants and product items
- Integrated primer coat check and recommendation capability
- Full range database management maximizes performance, flexibility and customer satisfaction



COROB™ InnovaTint

| | | BASIC | PROFESSIONAL | ULTIMATE LIMITED | ULTIMATE |
|-------------------------|---|-------|--------------|------------------|----------|
| <i>operating system</i> | Windows® XP SP3 up to and including Windows 8 | YES | YES | YES | YES |
| <i>basic functions</i> | Search & Tinting routines | YES | YES | YES | YES |
| | Label printing | YES | YES | YES | YES |
| <i>machine controls</i> | Intelligent colorant level management | YES | YES | YES | YES |
| | Barcode Quick Scan function | — | YES | YES | YES |
| | In-built driver | YES | YES | YES | YES |
| <i>product tracing</i> | Statistics, Basic Store | YES | YES | YES | YES |
| | Statistics, Professional Store & Manage | — | — | YES | YES |
| | Pricing tool for localization | YES | YES | YES | YES |
| | Product info window (local/web) | — | YES | YES | YES |
| | Product stock level management | — | — | YES | YES |
| <i>formula handling</i> | Custom formulas and order history tracing | YES | YES | YES | YES |
| | Find closest color (requires spectrophotometer) | — | YES | YES | YES |
| | Replication methods | — | — | YES | YES |
| | Formula scaling | YES | YES | YES | YES |
| <i>color matching</i> | Color matching | — | — | — | YES |

Technical requirements

- Personal computer with CD-rom or DVD-rom drive
- Pentium 4 processor, 1.5 GHz equivalent or better
- Operating system: Windows® XP SP3 up to and including Windows 8
- RAM: 1 GB minimum (with Windows Vista and Windows 7: 2 GB minimum)
- Hard disk: minimum of 60 GB free space
- Monitor display resolution: 1024 x 768, 32-bit colors
- Ports: 2 USB ports, 1 serial port suggested
- Additional ports required for color matching or label printer

COROB™ InnovaTint

CPS Color is a global supplier of integrated tinting solutions.

- CPSCOLOR™ colorants
- COROB™ dispensing and mixing equipment
- Software
- Color marketing
- Worldwide service and customer support

www.cpscolor.com

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CPSCOLOR™
any color you see