



COLOUR PASSION SYSTEM



colour
passion

Sirca



Colour Lab,
Sirca's signature



COLOUR PASSION SYSTEM

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Colour Passion tintometrical system



Sirca Colour Passion tintometrical system is conceived and structured to allow to final users or stores to reproduce a wide range of high quality pigmented topcoats.

Thanks to each component of the system, it is possible to reproduce accurately, quickly, easily and consistently colours included in commonly used colourcharts, like RAL, NCS, Pantone, Sikkens, etc. In this way it is possible to ensure

high quality performances to the coatings, just if they came directly from production department of Sirca, leading company in wood coatings market. All Sirca coatings and pigmented pastes are formulated and produced in our facilities, in Italy, this means that final quality and constancy of characteristics are checked daily, in order to provide to the final user high quality coatings or customised ones.

This system can be applied successfully to:

Metal coatings

- RUST PREVENTERS
- PRIMERS AND SEALERS
- PIGMENTED SELF SEALERS
- MONOCOMPONENT ENAMELS (nitro, alkyd, chlorine rubber)
- BICOMPONENT ENAMELS (polyurethane, acrylic, epoxy)

Wood coatings

- MATT PIGMENTED POLYURETHANE TOPCOATS
- HIGH GLOSS PIGMENTED POLYURETHANE TOPCOATS
- MATT ACRYLIC TOPCOATS
- HIGH GLOSS ACRYLIC TOPCOATS
- WATER BASED MATT PIGMENTED TOPCOATS FOR EXTERIORS
- SOLVENT BASED MATT PIGMENTED TOPCOATS FOR EXTERIORS
- WATER BASED MONOCOMPONENT MATT PIGMENTED TOPCOATS FOR INTERIORS
- WATER BASED BICOMPONENT MATT PIGMENTED TOPCOATS FOR INTERIORS
- WATER BASED MATT PIGMENTED TOPCOATS FOR GLASS

In addition, customised colours can be formulated, that can be used in special painting systems, like dual cure matt and high gloss UV topcoats, matt and high gloss acrylic ones and customised metal coatings.

The correct choice of the Colour Passion system suitable for each production need has to consider:

- DESIRED FINAL QUALITY AND REPRODUCIBILITY
- PRODUCTIVITY
- DAILY NUMBER OF COLOURS TO BE FORMULATED
- ARTICLES QUANTITY TO BE PRODUCED
- CUSTOMISED PRODUCTS REQUEST

So, it is possible to define the following macro cases:

1

When the demand of customised products and the number of pigmented coatings to be prepared is small, it is suggested to opt for manual system, composed by paper formularies and wall stirring mixer.

This system allows to reach a good colour fidelity considering the common colour charts.

2

When the demand of customised products is small but the number of pigmented coatings to be prepared is notable, it is suggested to opt for the automatic tintometer, that allows to prepare quickly a lacquer, thanks to the possibility of dosing of atmost three pigmented pastes simultaneously. In this way the working environment is better orderly and healthy, and the saving in terms of production waste becomes high.

The tintometer is able to dispense correctly the mixture of needed pigmented pastes into the proper pre-weighed converter.

3

When the demand of customised products and the number of pigmented coatings is high, it is suggested to consider a combined system, composed by a spectrophotometer and an automatic tintometer. In this way it will be possible to formulate, correct and reproduce a wide variety of different colours, which are included in any kind of colourchart or in special ones. In addition, it is possible to control and store any kind of production batch, in order to constantly keep under control the production process of these lacquers.

Spectrophotometers

Datacolor 110 spectrophotometer

Economic tool bench (spectrophotometer with fixed area to be defined when ordering)
Normally the standard SAV area is 9 mm.

Software quality control and formulation/correction

- **Datacolor Match Pigment Plus**

(commonly called as mother software)

The software is composed by:

Section 1 - Quality Control

Section 2 - Formulation and correction

Section 3 - Creation of a Colourfile

DATACOLOR 110



- **Datacolor Match Pigment Plus WS**

(commonly called as daughter software)

The software is composed by:

Section 1 - Quality Control

Section 2 - Formulation and correction

Colour Passion system, therefore, is composed by two parts, a software and an hardware, which integrate perfectly to provide the highest quality and reproducibility of pigmented topcoats, both in matt and high gloss versions.

XRite Ci61 Portable Spectrophotometer

Lightweight, compact, portable and easy to use. It is possible to measure throughly all kind of coated surfaces, saving time and reducing waste in the paint matching process. Designed with a large LCD display and an easy menu with touch controls.

Software quality control and formulation/correction

● Paint Color Master 2

Main features of the software are:

- Formulation and correction
- Shine identification with 60° value
- Up to 4,000 samples that can be stored for a fast and easy retrieval when needed
- Automatic dispensers interface (CPS, TECMEC, INKMACHER)
- Quality control
- Possibility to connection with your PC using the USB cable included

XRite Ci61



Sirca will provide the needed colour files to reproduce the colours included in the most common colour charts, RAL, RAL Design, NCS e Munsell.

Wall mixing machine FLEXIMIX 100

It's a compact and versatile wall mixer, able to stir each single pigmented paste of the tintometrical system.

It's a perfect solution when the number of lacquers prepared daily is limited, so it's therefore preferable to prepare them manually. Sturdy and resistant, it's easy to assemble and clean, thanks to the material used (zinc-aluminium alloy). It allows to stir at the same time up to 35 pigmented pastes, in 3,5 kg packs. It's possible to stir even 1 kg pack. The footprint depends by the desired configuration.

Sirca will provide the needed colour files to reproduce the colours included in the most common colour charts, RAL, RAL Design, NCS and Munsell.

FLEXIMIX 100



Tintometers

COROB D300 automatic tintometer

Compact and inexpensive to purchase and maintain, it is an ideal solution for Do-It-Yourself stores or similar environments where low to medium paint volumes are prepared. Easy to use, it can dispense quickly the needed pigmented pastes to save time and decrease the waste of products. It's provided with 16 canisters, 8 containing 4 litres and 8 containing 6 litres, or 24 canisters, 12 containing 4 litres and 12 containing 6 litres. The maximum height of a can is 45 cm. The footprint needed depends by the configuration chosen, it goes from 74X94X136 cm (sixteen canisters), to 102X94X136 cm (twenty-four canisters). The flow rate is 0,2 - 0,5 l/min.

Software for configuration and production of pigmented products

● CorobShop 4.16 and CorobTech 5.9

Main features of these softwares are:

- Manual or automatic calibration
- Manual update of pigmented pastes volumes
- Quick and easy set up basing to the tintometrical system chosen
- Editing and saving of any kind of formula
- Costs control
- Loading and dispensing of any formula saved

Computers & Accessories

Each spectrophotometer and tintometer must be equipped with a PC or Laptop. The computer must be dedicated exclusively to the use of the proper instrument.

The operating system Windows7 or Windows8 installed in every PC or laptop must be in English. The Keyboard / Mouse type must be English.

COROB D300

AUTOMATIC TINTOMETER



Tintometrical systems



Colour Passion HP - High Performance Metal Line

Colour Passion HP system allows to formulate, correct and reproduce metal coatings of various nature, be them alkydic, epoxypolyamidic, acrylic or polyurethanic.

This system is based on nineteen pigmented pastes, three special pastes, a neutral one and forty different clear converters.

FBU00 Neutral paste

FBU01 Oxide yellow paste

FBU02 Orange paste

FBU03 Oxide red paste

FBU04 Violet oxide red paste

FBU05 Blue paste

FBU06 Green paste

FBU07 Violet paste

FBU08 White paste

FBU09 Deep black paste

FBU10 Cold yellow paste

FBU11 Lemon yellow paste

FBU12 Gold yellow paste

FBU13 Magenta red paste

FBU14 Scarlet red paste

FBU15 Bright red paste

FBU16 Black paste

FBU44 Fine textured paste

FBU48 Coarse texturized paste

FBU60 Alluminium fine grain paste

FBU65 Alluminium medium grain paste

FBU70 Alluminium coarse grain paste

FBU90 Universal matting paste

F011SE Acrylic semi-gloss high solid converter for enamels

F011SP Acrylic gloss high solid converter for enamels

F211PC Alkyd converter for primers

F230PC Epoxypolyamidic converter for primers and sealers

F302CC 2k acrylic converter for primers and sealers

F302PC 2k acrylic converter for primers

F303DD 2k acrylic semi-matt converter for self sealers

F303FF 2k acrylic converter for self sealers

F303TX 2k thixotropic acrylic converter for self sealers

F311PC Alkyd converter for primers and rust preventers

F315EX Alkyd converter with zinc phosphate for self sealers

F315SP Alkyd converter for self sealers

F330PC Epoxypolyamidic converter for self sealers

F360SE Vinyl converter for primer

F400SP 2k acrylic high gloss converter for enamels

F402BC 2k acrylic orange peel effect converter for enamels

F403DD 2k acrylic high gloss converter for self sealers

F403FF 2k acrylic high gloss converter for self sealers

F4100P Alkyd converter for enamels

F4100P Alkyd matt converter for enamels

F410SE Alkyd semi-gloss converter for enamels

F410SP Alkyd high gloss converter for enamels

F4200P Polyurethane matt converter for enamels

F420SE 2k polyurethane semi-gloss converter for enamels

F420SP 2k polyurethane gloss converter for enamels

F430BC 2k epoxypolyamidic orange peel effect converter for enamels

F430SE 2k epoxypolyamidic semi-gloss converter for enamels

F430SP 2k epoxypolyamidic high gloss converter for enamels

F4360P Nitro converter for enamels

F436SP Nitro converter for enamels

F4440P Alkyd chlorinated rubber matt converter for enamels

F444SP Alkyd chlorinated rubber high gloss converter for enamels

F503FF 2k acrylic matt converter for self sealers

F710PC Acrylic converter for self sealers

F720PC Acrylic converter for plastics materials

F750PC 2k acrylic converter for plastics materials

F805PC Synthetic converter for primers/anti-rusts

F844SE Alkyd chlorinated rubber semi-gloss converter for enamels

F8440P Alkyd chlorinated rubber matt converter for enamels

F844SP Alkyd chlorinated rubber high gloss converter for enamels

Products obtained using this system are very easy to prepare, as it operates on predosed cans and equipped with tie lids; operators have only to open the can of the chosen converter, add the FBU pastes needed to match the required colour following the formulations included in the CD or in the software of the mixing machine, and then shake well.

It is possible to reproduce all RAL and NCS colours included Coloursystem chart.

In addition to the quickness of preparing the product, COLOUR PASSION HP system allows to realize exceptional coatings, suited to meet the most different demands of metal sector; effectively, it is possible to prepare products for industry, heavy carpentry, light carpentry, agricultural machinery, etc.

Tintometrical systems

Colour Passion HQ - High Quality Wood Line for polyurethane lacquered

Colour Passion HQ system allows to formulate, correct and reproduce high quality lacquers of different nature, be them solvent or water based.

Basing to production and market needs, therefore, it possible to use the following systems:

Solvent based matt and high gloss pigmented products

Fifteen pigmented pastes, two white bases and two clear ones

PPP30 White paste	PPP39 Beta blue paste	PPP48 Violet paste
PPP331 Lemon yellow paste	PPP40 Black paste	PPP285 Magenta red paste
PPP332 Sun yellow paste	PPP142 Bright red paste	OPP530NI Matt white base
PPP33 Oxide yellow paste	PPP43 Green paste	LPP2530NC High gloss white base
PPP335 Orange paste	PPP45 Dark red paste	CR4500G Matt clear base
PPP36 Oxide red paste	PPP146 Bordeaux paste	CR4072 High gloss clear base
PPP139 Alfa blue paste		

The pigmented topcoat achieved with the system mentioned above is characterised by fast drying time, excellent coverage, smoothness and surface hardness.

The final gloss level of a matt pigmented PU product depends by the gloss level of the converter used and the percentage of pigmented pastes added. This series of products can be applied successfully by spray (manual or automatic) and curtain coater.

The full gloss pigmented topcoat achieved with this system is characterised by excellent surface hardness (it can be buffed very easily), excellent coverage and levelling and good reactivity. This series of products can be applied successfully by spray (manual or automatic) and curtain coater.



Tintometrical systems



Water based matt and high gloss pigmented products for interiors, water based matt pigmented products for exteriors and pigmented products specific for glass

Sixteen pigmented pastes, five white bases and seven clear ones

PNW130	White paste
PNW131	Cold lemon yellow paste
PNW132	Cold sun yellow paste
PNW133	Oxide yellow paste
PNW134	Warm lemon yellow paste
PNW135	Orange paste
PNW136	Oxide red paste
PNW137	Warm sun yellow paste
PNW139	Ftalo blue paste
PNW140	Deep black paste
PNW141	Black paste
PNW142	Bright red paste
PNW143	Green paste
PNW146	Bordeaux paste
PNW148	Violet paste
PNW185	Magenta red paste

CRWM	Clear monocomponent matt base for interior
CRWB	Clear bicomponent matt base for interior
CRWG	Clear bicomponent embossed base for interior
IDROGLOSS	Clear high gloss base for interior
OWPI530G	White monocomponent matt base for interior
OWBP530G	White bicomponent matt base for interior
WOP003	Clear competitive matt base for exterior
WOP201	Clear matt base for exterior
OWP030	White competitive matt base for exterior
OWP230	White matt base for exterior
WETRO001	Clear base specific for glass
WETRO730	White base specific for glass



Tintometrical systems

Colour Passion HP - High Performance Wood Line for polyurethane lacquered

Colour Passion HP allows to formulate, correct and reproduce matt and high gloss lacquers, using an universal series of pastes:

Solvent based matt and high gloss pigmented products

Sixteen pigmented pastes, four white bases and two clear ones

FBU01 Oxide yellow paste	FBU09 Deep black paste	OPP530NI Matt white base
FBU02 Orange paste	FBU10 Cold yellow paste	LPP2530NC High gloss white base
FBU03 Oxide red paste	FBU11 Lemon yellow paste	CR4500G20 Matt clear base
FBU04 Violet oxide red paste	FBU12 Gold yellow paste	CR0072 High gloss clear base
FBU05 Blue paste	FBU13 Magenta red paste	OPP053 White competitive matt base
FBU06 Green paste	FBU14 Scarlet red paste	LPP030 White competitive high gloss base
FBU07 Violet paste	FBU15 Bright red paste	
FBU08 White paste	FBU16 Black paste	



Tintometrical systems



Colour Passion HP - High Performance Wood Line for acrylic lacquered

Colour Passion HP allows to formulate, correct and reproduce matt and high gloss lacquers, using an universal series of pastes:

Solvent based matt and high gloss pigmented products

Sixteen pigmented pastes, two white bases and two clear ones

FBU01 Oxide yellow paste

FBU02 Orange paste

FBU03 Oxide red paste

FBU04 Violet oxide red paste

FBU05 Blue paste

FBU06 Green paste

FBU07 Violet paste

FBU08 White paste

FBU09 Deep black paste

FBU10 Cold yellow paste

FBU11 Lemon yellow paste

FBU12 Gold yellow paste

FBU13 Magenta red paste

FBU14 Scarlet red paste

FBU15 Bright red paste

FBU16 Black paste

OPA7030 Matt white base

LPA7130 High gloss white base

CR7500G20 Matt clear base

CR7072 High gloss clear base



Tintometrical systems

Formularies

Sirca will provide the following formularies, in excel format, for each listed tintometrical system:

- **ColorSirca colour chart**, for Wood Line, high gloss and matt versions
- **Colorsystem colour chart**, for Metal Line, high gloss and matt versions
- **Ral colour chart**, for Wood and Metal Lines, high gloss and matt versions
- **NCS colour chart**, for Wood and Metal Lines, high gloss and matt versions

Sirca Technical Support will be pleased to provide more detailed information referred to Colour Passion tintometrical system and the technical support necessary for the selection and installation of the system best suited to its production process, as well as the technical training of its dedicated staff.



Completion of a perfect workstation

Along with equipments above listed and described, to setup a perfect and professional workstation there are additional complementary equipments for weighing, properly mixing and applying wood and metal coatings, in order to formulate, produce, apply and correct easily and quickly an high gloss or matt pigmented product.

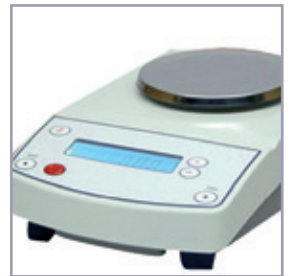
Weighing systems

The must have for a professional laborathory or point of sale is an high precision scale, for the optimal formulation of every sample requested.

● High precision scale

It's an high precision scale with load cell, characterised by a 0,01 g sensitivity, that is indispensable in a laboratory or colour centre, to produce small samples of stains or pigmented products for wood or metal. Very easy to use and reliable, it allows to set the desired unit of measurement. It can be connected to a computer or any other device.

It works also with batteries. 5000 g maximum recommended load.



● Semi-Industrial scale

It's an high precision electronic semi-industrial and laboratory scale with load cell, characterised by a 0,1 g sensitivity, that is indispensable in a laboratory or colour centre, to produce samples of stains or pigmented products for wood or metal up to 30 kg.

Very easy to use and reliable, it allows to set the desired unit of measurement. It can be connected to a computer or any other device.

It works also with batteries. 30 kg maximum recommended load.



● Industrial scale

It's an high precision electronic industrial scale with load cell, characterised by a 0,1 g sensitivity, that is indispensable in a laboratory or colour centre, to produce samples of stains or pigmented products for wood or metal, up to 50 kg.

Very easy to use and reliable, it allows to set the desired unit of measurement. It can be connected to a computer or any other device. It works also with batteries. 50 kg maximum recommended load.



Completion of a perfect workstation

Mixing systems

The perfect and adequate mixing of pigmented pastes in a proper converter allows to deliver to the customer a perfectly matching pigmented product, in terms of colorimetric yield and correspondence to the desired required colour.

The systems presented are highly professional and allow to achieve high quality standards.

● Gyroscopic mixer Clevermix 550

It is a self-closing and automatic gyroscopic stirrer, characterised by high mixing efficiency and ease of maintenance, it presents a removable load plate and sturdy closure of the loading area.

It's equipped with an intuitive control panel. Speed and stirring time functions are programmable.

It can shake packs of different weights, starting from one kilogram tins to 25 kg cans.

The minimum height of the tin must be 8 cm, the maximum one of a can must be 47 cm.

The footprint is equal to 80X79X101 cm.



Gyroscopic mixer Clevermix 550

● Laboratory stirrer with stainless steel mixing tool

It's a laboratory stirrer suitable for highly efficient mixing, homogenising and dissolving of fluid and viscous products.

It's suitable for mixing of pigmented pastes into the proper converter, it can dissolve or make uniform a solid-liquid system. It allows to work on any kind of coating product, in order to achieve quickly what is desired.

The engine, and thus the mixing tool, scroll up on a chromed column, allowing to work on different packaging: changing properly the mixing tool, it's possible to stir from one kilogram up to 30 kg samples.



Laboratory stirrer

Spray systems

● Dry Spray Booth

It's a cabin for spray applications, efficient and little bulky, which could be positioned in the laboratory or suitable facilities into a colour centre.

It's recommended when the paint quality has to be verified before delivery, including the colour checking.

This booth is equipped with a suction system for the extraction of fumes. The overspray is retained by suitable filters built up in the frontal area, which can be cleaned and/or replaced easily and quickly.



Dry spray booth

Control systems

● Glossmeter

A very useful tool in a laboratory or colour centre is the glossmeter, an instrument which can effectively and precisely determine the gloss level of any kind of topcoat. It's easy to use, portable and lightweight.

It allows to measure the gloss level with angles of 20°, 60° and 85°, depending on the desired accuracy of the measurement.



Glossmeter

● Colour evaluation chamber

The perception and visual evaluation of a colour is subjective and varies with the illuminating light.

When a spectrophotometer is not available or when a colour has to be evaluated visually, it's possible to work using a bench colour evaluation chamber, characterised by a limited footprint.

This instrument follows the current regulations of the industry, it allows to evaluate, compare and analyse one or more colours (methamerism checking). The chamber can be equipped with a 45° plate and presents five different light sources, which can simulate, for example, the daylight (D65) and neon lamp (F11). The footprint is equal to 71X40,5X57 cm.



Colour evaluation chamber

NOTES



Sirca Technical Support will be pleased to provide more detailed information concerning the laboratory equipment described, in order to help the customer to properly choose the most suitable equipment for its needs.





MADE IN ITALY

A horizontal graphic of the Italian flag, consisting of three equal-width vertical stripes of green, white, and red.



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