



Solvent-based Line Inks for Paper & Board

COLORSTAR CS – COLORJET CO – SERISTAR SX

A range of inks providing a variety of finishes for printing onto natural and synthetic papers, board, coated hardboard, glass, and coated metals.

Colorstar CS

Wide adhesion range, paper & board, corrugated board, hardboard, wood, glass, 'Polyart' & 'Syntea' Type 10 Tyvek' with good holdout on absorbent stocks. Scuff resistant, fast low temperature jet or air drying ink. Excellent screen stability & self-solvency. 25 colours including the Seritone Matching Systems.

Colorstar is fully miscible with Seristar SX and to produce intermediate finishes. May overprint fully dry prints of Colorjet CO and Seristar SX or be overprinted by them.

Colorjet CO

Safe, fast drying ink for paper, board, hardboard, wood, polystyrene, and coated tin. Can be thinned with White Spirit and other similar economical solvents.

Superb screen stability and self-solvency. Good hold out on absorbent stocks. 31 colours including Seritone Matching Systems and metallics. May be printed over dry prints of Colorplus Fluorescent CF, Colorstar CS and Tristar GT. **Should not be overprinted by GT.**

Exercise care when overprinting metallic colours, as intercoat adhesion will be reduced.

Seristar SX

High gloss finish for use on paper & board including corrugated, hardboard, wood, glass, 'Syntea', many coated polyesters & coated metals. Rub and scuff resistant. Fast, low temperature jet or air drying. Excellent screen stability and self-solvency.

27 lead-free colours including the Seritone System. PANTONE® 1000 Matching Formulae available.

Seristar SX is fully miscible with Colorstar CS. The printing, drying properties and gloss level of the blend is dependant on the ratio used. May overprint Colorstar CS or be overprinted by it. By utilising a special additive and adhesive, Seristar SX can be used to produce dry transfers (see section 'Dry Transfer System').

IMPORTANT:

Stir well before every use. Colorstar is suitable for use on 'Type 10 Tyvek' and 'Depron H' and, for interior use only, some grades of polystyrene. The use of ZC645 minimises solvent attack on 'Depron H' and curl & cockling on 'Type 10 Tyvek'.

Because of the wide variations of polystyrene and metal coatings, it is essential to test applications fully before beginning a production run.

Outdoor Exposure of Seristar SX and Colorstar CS

Although Seristar SX and Colorstar CS inks give good adhesion to many substrates used outdoor, the composition of the inks are not suitable for prolonged outdoor exposure and prints will have limited durability.

Poster Pastes

Certain adhesives and poster pastes can adversely affect the printed ink film and customers are recommended to ensure those used are compatible.

Main Characteristics

Finish

Colorstar CS: Satin. **Colorjet CO:** Satin/Matt. **Seristar SX:** High Gloss.

Drying

Colorstar CS Jet: 10-20 secs.

Colorjet CO Jet: 70°C 10-15 secs. Air: 15 mins approx.

Seristar SX Jet: 50-60°C 10-20 secs.

Figures are substrate dependant and overprints may require more drying time.

Thinning

Colorstar CS: 20-30% ZC530. High speed printing use ZC568. Hot shop conditions use ZC533. Optimum hold out use ZC534. Optimum adhesion to glass use ZC536.

Type 10 'Tyvek' & 'Depron H' use ZC645 TD Thinner.

Fine line & slow speed use ZC535.

ZC535 is the recommended thinner where an aromatic solvent free system is required (see 'Environmental Information').

Colorjet CO: 10-20% ZS640 or White Spirit. For improved drying & screen stability use ZC521. Hot shop conditions use ZC529.

Seristar SX: 20-30% with ZC530.

High speed printing use ZC568.

Hot shop conditions use ZC533.

Slow printing or fine line use ZC535.

For satin finish or optimum hold-out use ZC534.

To maximise adhesion to glass/coated metals use ZC536.

Wash-up

Seriwash Universal Screen Wash or Actisol Superjet Screen Spray. ZC521 may also be used for Colorjet CO only, and ZC530 for Seristar SX & Dry Transfer System mixtures.

Mesh (monofilament)

Colorstar CS, & Seristar SX: 100-140.

Colorjet CO: 100-120.

Stencil Type

Any solvent resistant.

Recommended:

Dirasol 902, Dirasol 916. Indirect or 25 micron capillary film. (18/25 micron for Colorstar CS)

Coverage & Mesh No.

Colorstar CS: 60-75 m²/litr. No. 110.

Colorjet CO/Seristar SX: 65-75m²/litr. No. 110.

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Metallics Inks

Rich Pale Gold and Silver Metallics are available in Colorjet CO. Metallics print bright and brilliant effects, but do not lend themselves to overprinting with other colours where strong intercoat adhesion is required – therefore, metallics should normally be printed last.

Where it is essential to overprint with other colours, the CO Metallics should be reduced with CO382 Metallic Ink Medium. The strength of intercoat adhesion will proportionately improve as the content of metallic powder declines.

A compromise between satisfactory overprinting and acceptable brilliance and opacity has to be reached.

Metallic powders and a silver paste are also available for mixing into CO382 at the following ratio:

CO382 **80 parts by weight**
Metallic Powder **20 parts by weight**

The metallic powders may also be mixed into Colorstar CS381 or Seristar SX383. However, these mixtures become unusable after 8 hours. Only sufficient for a days work should be mixed. See Product Information Sheet 'Universal Tinters, Metallic Inks and Varnishes'.

The Seritone 'A' Matching System

The Seritone 'A' matching system consists of lead free base colours. Using these colours plus black, white and base almost any colour can be produced, including PANTONE® 1000 colours.

The Seritone 'C' Matching System

The Seritone 'C' base colours are available in Colorstar CS and Colorjet CO. Where higher opacity matches are required lead containing alternatives for 4 base colours are available.

Colour Management

The Colorstar CS and Seristar SX ranges includes 9 Seritone base colours plus Black, White and Extender Base to produce accurate simulations of the PANTONE® colours in the coated ('C' suffixed) section.

The Sericol package includes:

1. **PANTONE® Colour Formula Guide**
The original PANTONE® book customised by Sericol.
2. **Sericol Formula Guide**
A booklet containing formulations given in percentages by weight.
3. **Colour Manager Software**
For use with IBM compatible computers. This package enables use of the PANTONE® formulations plus:
 - Storage facility for user's own formulations.
 - Automatic batch sizing and costing.
 - Stock control system to calculate the amount of stock and a reminder when stocks fall below a chosen (programmable) level.
4. Sericol also offers a range of weighing scales and ink dispensers pre-programmed with formulae to simulate PANTONE® 1000 colours.

Contact your nearest representative for details on our colour management programme.

Universal Tinters

Universal Tinters are a range of 10 non-fluorescent and 4 fluorescent highly concentrated colour bases for tinting, designed to mix easily into all Sericol solvent-based paper and board inks. Up to 10% of non-fluorescent and 20% of fluorescent tinters may be added. See Product Information Sheet 'Universal Tinters, Metallic Inks and Varnishes'.

Special Matches

Matches can be supplied against prints, wet ink samples or to PANTONE®, British Standard, 'HKS', or 'Munsell' references. A sample of the substrate with the number and type of mesh to be used as well as other relevant data should be attached to orders.

Minimum quantity 5 ltr.

Dry Transfer System

Comprising a special additive and low tack adhesive, the system takes full advantage of the Seristar SX colour range and PANTONE® Matching Formulae to produce satin finish transfers. The additive must be mixed with SX inks prior to printing on to RL-Carrier Film and then overprinted with Dry Transfer Adhesive. Once cured the printed images can be transferred by rubbing the reverse of the carrier film with a burnisher.

Mixing: The additive should be mixed in the following percentages by weight:

Seristar SX	75 parts
ZT815 Dry Transfer Additive	25 parts

Adhesive: AH407 Dry Transfer Adhesive is supplied ready to use. It is not necessary to print in register with the design as it is designed not to transfer outside the print area.

Jet Dry Curing: 50-60°C 10-20 secs for Colours, 50-60°C 10-20 secs and should not be air dried, for adhesive.

Thinning: Up to 10% ZC530. To improve screen stability use ZC535.

Mesh: Colours; 90-110, Adhesive; 90 monofilament.

Wash-up: Seriwash Universal Screen wash, ZC530, ZC535 or Actisol Superjet Screen Spray.

RL-Carrier Film: The RL-Carrier Film is a matt plastic film which is flat and stable for easy registration and translucent for accurate placement when transferring. Care must be taken to avoid excessive pressure during application of the transfer to avoid distorting the film and/or image.

Interleaving & Storage: After printing the adhesive, interleave with a lightweight double-sided silconised paper. Store flat, in a cool, dry environment preferably in boxes or envelopes until ready for transfer application.

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Standard Colours

	Colorstar CS	Colorjet CO	Seristar SX
Black	CS001	CO001	SX001
Tinting Black	CS010	CO010	SX010
Dense Black	–	–	SX009
White	CS021	CO021	SX021
Tinting White	CS030	CO030	SX030
Extra Opaque White	CS023	CO023	–
Opaque White	–	–	SX025
Light Yellow	–	–	SX041
Light Yellow/Seritone Yellow (Green Shade)	CS041(C)(T)	CO041(C)(T)	–
LF Light Yellow/Seritone Yellow (Green Shade)	CS064(A)	CO064(A)	–
Seritone Yellow (Green Shade)	–	–	SX064(A)
Light Chrome	CS042	CO042	SX042
Mid Chrome	–	–	SX043
Mid Chrome/Seritone Yellow (Red Shade)	CS043(C)(T)	CO043(C)(T)	–
LF Mid Chrome/Seritone Yellow (Red Shade)	CS066(A)	CO066(A)	–
Seritone Yellow (Red Shade)	–	–	SX066(A)
Deep Orange	–	–	–
Deep Orange/Seritone Orange	CS102(C)(T)	CO102(C)(T)	–
LF Deep Orange/Seritone Orange	CS114(A)	CO114(A)	–
Mandarin Orange	–	–	–
Seritone Orange	–	–	SX114(A)
Warm Red	–	–	–
Vermilion/Seritone Red (Yellow Shade)	CS121(C)(T)	CO121(C)(T)	SX121(A)
LF Vermilion/Seritone Red (Yellow Shade)	CS191(A)	CO191(A)	–
Opaque Vermilion/Seritone Red (Yellow Shade)	–	–	–
Scarlet	CS122(T)	CO122(T)	SX122
LF Scarlet	CS192	CO192	–
Seritone Red (Blue Shade)	CS164(A/C)	CO164(A/C)	SX164
Deep Red	–	–	SX124
Magenta	–	CO126	SX126
Seritone Magenta	CS165(A/C)	CO165(A/C)	SX165(A)
Deep Violet/Seritone Violet	CS127(A/C)	CO127(A/C)	SX127(A)
Mid Blue	–	CO203	SX203
Seritone Blue (Red Shade)	CS233(A/C)	CO233(A/C)	–
Royal Blue	–	–	–
Ultramarine	–	CO225	–
Seritone Blue	CS230(A/C)	CO230(A/C)	SX230
Monastral Blue	–	–	–
Reflex Blue	–	–	SX236
Deep Blue	–	CO206	SX206
Brilliant Green	CS281	–	–
Bright Green	–	CO283	SX283
Seritone Green	CS325(A/C)	CO325(A/C)	SX325(A)
Monastral Green	CS284	CO284	SX284
Extender Base	CS381	CO381	–
Seristar SX Varnish	–	–	SX383
Available pack sizes	5 ltr	5 & 1 ltr	5 & 1 ltr

(A) = Seritone 'A' Base Colour. (A/C) = Seritone 'A' and 'C' Base Colour.
(C) = Seritone 'C' Base Colour – Lead containing. (T) = Lead containing inks.

Solvents

ZC521 Thinner for CO
ZC529 Retarder for CO
ZC530 Thinner & Cleaner for CS, SX
Available in 15, 5 and 1 ltr containers

ZC533 Retarder for CS, SX
ZC536 Special Thinner for CS, SX
ZS640 Tursub 245 for CO
Available in 5 and 1 ltr containers

ZC534 Hold Out Thinner for CS, SX
ZC535 Detail Thinner for CS, SX
ZC568 Fast Thinner for CS, SX
ZC645 TD Thinner for CS
ZS641 Odourless Thinner for CO
Available in 5 ltr containers.

Dry Transfer System Products

ZT815 Dry Transfer Additive
Available in 1 ltr containers.

AH407 Dry Transfer Adhesive
Available in 5 and 1 ltr containers.

RLR79 RL-Carrier Film Packets of 300 x A2 (594 x 420mm)

Safety and Handling

Products marked (T):

- contain lead and therefore should not be used on objects liable to be sucked or chewed by children and may cause harm to the unborn child.

All other products:

- are formulated free from lead and other heavy metals and therefore should comply to the EN71-3:1995 Toy Safety Standard.
- are formulated to be free of any toxic, carcinogenic, mutagenic or reprotoxic chemicals.

Comprehensive information on the safety and handling of Sericol screen inks and solvents is given in the appropriate Safety Data Sheets, available upon request.

Environmental Information

Colorstar CS, Colorjet CO, and Seristar SX:

- do not contain ozone depleting chemicals as described in the Montreal Convention.

Colorstar CS:

- is formulated free from aromatic hydrocarbons which are known to have an adverse effect on the environment.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

SERICOL
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