



Multispeed IQ Screen Inks

Multispeed IQ is a fast drying, low odour, gloss ink designed for printing onto a wide range of flexible and rigid plastics, particularly rigid styrene.

Plastics

Certain plastics may be impregnated with lubricants which, like plasticiser migration, may impair adhesion and block resistance even a considerable period after printing. This can be overcome by wiping the surface with White Spirit before printing. Surface adhesive left from protective papers on rigid PVC and acrylic sheets should be thoroughly removed in line with suppliers' instructions.

Outdoor Use

Accelerated weathering tests have been carried out on prints produced using Multispeed IQ in a Marr Weatherometer on the BS 3900 F3 Cycle.

Under these conditions Multispeed IQ, with the exception of IQ164 Seritone Red (BS), withstood 2000 hours (comparable to approx. 24 months outdoor exposure in the UK or similar climate) of testing before significant colour deterioration was evident.

Colour matches intended for outdoor use should not contain IQ164 Seritone Red (BS). In this situation IQ864 should be used. Please note that IQ864 cannot be used to replace IQ164 for Pantone formulations.

For optimum outdoor performance, particularly gloss retention, it is recommended that the prints are overprinted with IQ383 Multispeed IQ Varnish.

Product Resistance

Multispeed IQ inks have good resistance to a wide variety of solvents including petrol and alcohol.

The Seritone Matching System

The Seritone Matching System enables printers to readily match special colours in-house. The system consists of 9 lead-free base colours, each of which has been selected for its cleanliness of tone and suitability for intermixing. Using the base colours plus Tinting Black, Tinting White and Varnish, almost any colour can be produced.

The bases can be used as printing colours, but because of the required cleanliness of tone, these colours, though strong, are in some cases relatively transparent.

PANTONE® Matching System

The Multispeed IQ range includes nine Seritone base colours plus Tinting Black, Tinting White and Varnish to produce accurate simulations of the PANTONE colours in the coated ('C' suffixed) section.

The Sericol package includes:

- 1 **PANTONE® Color Formula Guide**
The original PANTONE book customised by Sericol.
- 2 **Sericol Formula Guide**
A booklet containing formulations given in percentages by weight.

Main Characteristics

Finish

Gloss (Trichromatics, high satin)

Drying

Jet drying: line colours, 50°C 15-20 seconds.. Overprints may require a longer dwell time.

Trichromatics, 25-30 seconds..

Air drying: 5 -15 minutes..

Thinning & Wash-up

10-20% ZV552.

Fine line and slow speed use, 10-20% ZV558.

Wash up with Seriwash Universal Screen Wash or Actisol Superjet Screen Spray.

Mesh

Nos. 100.40-120.34 monofilament

(Trichromatics, 120.34 -140.34 monofilament).

Stencil Type

Any type except solvent adhering film or Stenplex Amber.

Recommend:

Dirasol 902, Dirasol 916 or indirect/direct capillary films.

Coverage & Mesh No.

80-95m²/kg through No. 120.

Applications

Matt/gloss polystyrene, rigid vinyls, coated polyesters, self-adhesive vinyl.

Colour Range

19 lead free colours including Seritone Matching System and four process colours to

DIN 16538/9 (BS4160/4666)

Pantone®* 1000 Matching Formulae available.

Properties

Low odour. Safe, low temperature jet drying. Exceptional block resistance. Excellent screen stability and self solvency.

Co-use with other Inks

It is not recommended that Multispeed IQ is mixed with any other ink range. For further information please consult Sericol Technical Services.

IMPORTANT:

Stir well before every use. Always test application fully before beginning a production run as there is often considerable variance in plastics from different manufacturers and even between different batches of the same material.

*PANTONE® is the property of Pantone, Inc.

3 Color 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.
- Ink coverage estimator.
- Stock control system to calculate the amount of stock and a reminder when stocks fall below a given (programmable) level.

4 PANTONE Formula Scales

Pre-programmed with the Sericol formulations of PANTONE references to ensure maximum accuracy, speed and cost savings.

Colour Range

Multispeed IQ is available in 15 intermixable lead-free standard colours which includes a Seritone Matching System.

Lead-free Standard Colours

Including Seritone Matching System

| | | |
|-------|-----|--------------------------|
| IQ001 | | Black |
| IQ010 | | Tinting Black |
| IQ030 | | Tinting White |
| IQ025 | | Opaque White |
| IQ064 | (s) | Seritone Yellow (GS) |
| IQ066 | (s) | Seritone Yellow (RS) |
| IQ114 | (s) | Seritone Orange |
| IQ121 | (s) | Seritone Red (YS) |
| IQ164 | (s) | Seritone Red (BS) |
| IQ864 | (s) | Extra Lightfast Red (BS) |
| IQ165 | (s) | Seritone Magenta |
| IQ127 | (s) | Seritone Violet |
| IQ230 | (s) | Seritone Blue |
| IQ325 | (s) | Seritone Green |
| IQ383 | | Varnish |

(s) = Seritone Base Colour

(GS) = Green Shade (YS) = Yellow Shade

(RS) = Red Shade (BS) = Blue Shade

Available in 5kg containers.

Trichromatic Multispeed IQ

(to DIN 16538/9 (BS4160/4666))

| | |
|-------|----------------------------|
| IQ052 | Trichromatic yellow |
| IQ135 | Trichromatic magenta |
| IQ215 | Trichromatic cyan |
| IQ004 | Trichromatic black |
| IQ396 | Trichromatic extender base |

Available in 5ltr containers.

Solvents

ZV552 Low Odour Thinner

ZV558 Retarder

Available in 25, 5 and 1ltr containers.

Special Matches

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

Minimum quantity 5 kgs.

Safety and Handling

Multispeed IQ:

- Is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Is formulated free from lead and other heavy metals and is tested to comply to the EN71-3:1995 Toy Safety Standard.

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

Environmental Information

Multispeed IQ:

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

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More than ink...Solutions.

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