



Monotex Plus ML Screen Inks

Monotex Plus ML inks are for direct, single or multi-colour wet-on-wet, printing on cotton and most 50/50 cotton/polyester blends. They have the advantage of curing at either ambient or elevated temperatures.

Curing Information

Monotex Plus ML inks will become touch dry in 15-30 minutes in normal temperatures but may be force dried in seconds. Drying of the ink may be accelerated by low temperature curing which also speeds the development of wash and dry cleaning resistance.

Air dried prints will only develop wash and dry clean resistance after 7 days.

Garments printed with Monotex Plus ML should not be sealed in polythene bags prior to the inks being fully dry as they may not develop wash resistance in an air tight environment.

Monotex Plus ML can be heat cured to achieve immediate or much improved wash and dry clean resistance, and the following schedules are recommended, although they should only be taken as a guide in obtaining optimum results from individual production facilities.

Convection Oven Stoving:
160°C for 2-3 minutes.

Long/Medium Wave Infra-red Stoving:
160°C for 1-2 minutes.

Short wave infra-red cure schedules vary from colour to colour, eg. dark colours cure faster than light colours.

Care should be exercised to adopt a suitable schedule as excessive curing can scorch the fabric.

Fastness

Light fastness is good, being not less than 6 on the Blue Wool Scale. When cold cured, the inks are resistant to gentle, low temperature wash programmes such as ISO Test No. 1 (40°C) and the United Kingdom Home Laundering Consultative Council Recommendation No.6 (40°C). Garment label recommendations should be complied with.

Rub fastness is generally good but, in extreme conditions, the action of rubbing perspiration soaked prints may significantly reduce the fastness of blue pigments.

Monotex Plus ML also has very good fastness to dry cleaning. Always test prints for suitability of their end use.

Other Uses

Monotex Plus ML inks may be used for block printing and painting of fabrics. They will also produce satisfactory prints on paper and board, which make them suitable for use in schools where non-toxic and water soluble colours may be preferred. Due to the water content some distortion of paper and board is unavoidable.

Colour Range

Monotex Plus ML is available in 15 intermixable, lightfast, non-bleeding colours, including the 9 colours of the Seritone Matching System. In addition there are 5 fluorescent colours and 4 trichromatics. ML381 Extender Base is available for mixing into any colour where a lower colour strength can be tolerated.

The Seritone Matching System

The Seritone Matching System enables printers to readily and economically match a wide variety of special shades. The 9 base colours have been specially selected for their cleanliness of tone, colour strength and suitability for intermixing.

Main Characteristics

Drying

Cures at ambient temperature but will give maximum wash and dry clean resistance when heat cured.

Thinning & Wash-up

Although supplied ready to print, may be thinned up to 5% with water.

Hot shop conditions: Up to 5% ZE592 S.303 WB Retarder.

To increase flow: Up to 5% ZT635 WB Flow Thinner.

To increase viscosity: Up to 5% by weight ZE596 WB Thickener.

Wash up with water.

Provided screens have been treated with Sericure Stencil Waterproofing Agent, dried in residues of ink may be washed out with Seriwash Universal Screen Wash.

Mesh

No. 34.100 - 62.64 monofilament.

For fine detail or when printing on finely woven textiles, finer grades may be used.

Stencil Type

Should be water resistant.

Recommend:

Dirasol 125 and Dirasol 916. For optimum stencil life, treat with Dirasol Super Hardener or Sericure Stencil Waterproofing Agent.

Coverage & Mesh No.

Approximately 15m²/ltr.

No. 62 Monofilament.

Fabrics

Cotton and most 50/50 cotton/polyester blends

Applications

T-Shirts & Sweatshirts

Colour Range

24 including trichromatics and fluorescents.

Properties

Choice of curing conditions - ambient, low or high temperature. Significant power savings when cured at ambient or low temperatures. Wide range of brilliant and fluorescent colours, Retains original soft 'hand' of the fabric. Excellent wet-on-wet printability.

IMPORTANT:

Stir well before every use. Users should ensure that Monotex Plus ML is compatible with textiles to be used before commencing production.

Special Matches

Matches can be supplied against prints, wet ink samples or to PANTONE®* references, British Standard, 'HKS', 'Munsell', or 'Seritone' numbers. A samples 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 ltrs.

Standard Colours

Monotex Plus ML:

| | |
|-------|-------------------|
| ML001 | Black |
| ML021 | White |
| ML057 | (s) Primrose |
| ML046 | (s) Golden Yellow |
| ML103 | (s) Orange |
| ML122 | (s) Scarlet |
| ML152 | Brick Red |
| ML153 | (s) Carmine |
| ML154 | (s) Fuchsia |
| ML132 | (s) Violet |
| ML218 | (s) Azure |
| ML219 | Oxford Blue |
| ML316 | (s) Sea Green |
| ML315 | Emerald Green |
| ML343 | Brown |
| ML381 | Extender Base |

(s) = Seritone Base Colours

Colours available in 5 and 1 ltr containers,
Extender Base available in 15 and 5 ltr containers.

Sheet, available on request.

Environmental Information

Seritec TH Transparents:

- Do not contain ozone depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons which are known to have an adverse effect on the environment.

Seritec TH Standard Colours:

- Do not contain ozone depleting chemicals

Trichromatic and Fluorescent Colours

| | |
|-------|----------------------|
| ML052 | Trichromatic Yellow |
| ML135 | Trichromatic Magenta |
| ML215 | Trichromatic Cyan |
| ML004 | Trichromatic Black |

| | |
|-------|-----------------------|
| ML053 | Fluorescent Yellow L |
| ML105 | Fluorescent Orange M |
| ML137 | Fluorescent Red M |
| ML139 | Fluorescent Magenta M |
| ML312 | Fluorescent Green M |

Available in 5 and 1 ltr containers.

Safety and Handling

Monotex Plus ML:

- 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.
- Should be protected from frost.

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

Environmental Information

Monotex Plus ML:

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

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