

Seritec TH Screen Inks

Seritec TH is a range of inks designed for printing undersurface graphics for touch and instrument panels.

Main Characteristics

| Finish | Drying | Thinning & Wash-up | Mesh | Stencil Type | Coverage & Mesh No. | Applications | Colour Range |
|--|--|---|---|---|---------------------------------------|--|--|
| Matt Opaque or Gloss Transparent. | Jet drying: 50°C, 20-30 seconds. To minimise risk of crazing on polycarbonate, Seritec must be jet dried not air dried at ambient temperatures. | 10-20% with ZE598. For slow production or fine detail in hot conditions use ZE801. For high speed printing of block areas use ZV551. Wash up with Seriwash Universal Screen Wash or Actisol Superjet Screen Spray. | Nos. 90-120 monofilament. | Any type except solvent adhering film and Stenplex Amber. Recommend: Indirect or 25 micron capillary film Sericol: Dirasol 902, Dirasol 916 | 55-65 m ² /kg. No. 110. | Polycarbonate, surface treated polyester, PVC. | 25 non-bleeding colours. Comprising 15 matt opaque shades including the Seritone Matching System and 9 gloss transparent shades. |
| Properties Excellent screen stability and self-solvency. Reliable adhesion to polycarbonate and surface treated polyester. Superb flow, free from pinholing. Fast, low temperature jet drying. | | | Diffusion Colours For some applications translucent 'diffusion' inks are preferred for illuminated windows. Diffusion colours have the ability to scatter light and thus obscure the light source behind the panel. Diffusion inks of this type can be made and supplied to order to match a customer's dry print or wet ink sample. Minimum quantity 5 kg. | | | | |

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

Plastics

Certain plastics may be impregnated with lubricants which, like plasticiser migration, may impair adhesion even a considerable period after printing. This can usually be overcome by wiping the surface with white spirit before printing. Surface adhesive left from protective papers should be thoroughly removed in line with suppliers' instructions.

Certain plastics can become brittle when printed, possibly to the point of shattering, often only after several weeks. It is therefore essential to check compatibility between ink and plastic to guard against this problem.

Seritec TH Transparents

A range of gloss inks of exceptional clarity designed for printing transparent filter windows in instrument panels. The colours may be used in conjunction with Dead Front Black and may be overprinted by Seritec TH opaque colours without fear of 'bleeding' problems.

The Seritone Matching System

The Seritone Matching System enables printers to readily and economically match a wide variety of special shades. The ten matching colours have been specially selected for their cleanliness, colour strength and suitability for intermixing. Using the Seritone Matching Colours plus Black, White and Extender Base, almost any colour can be produced. For optimum reproducibility and colour-matching

performance it is recommended that the Seritone base colours should be used in conjunction with TH010 Tinting Black and TH030 Tinting White which are pigmented to achieve ideal colour matching.

The matching colours can be used on their own but because of the required cleanliness of tone these colours, though strong, are in some cases relatively transparent. Where a black or white printing colour is required the standard TH021 White, TH023 Extra Opaque White or TH001 Black should be used as these inks have higher opacity and colour strength than the tinting shades.

Colour Range

Seritec TH is available in 25 non-bleeding colours comprising 15 matt opaque shades, as well as 9 gloss transparent shades and a Dead Front Black. Where required, TH381 Extender Base is available for intermixing with the opaque range of colours and TH419 Transparent Extender Base for use with the transparents.

Seritec TH

Screen Inks

Standard Colours

Seritec TH:

| | |
|--------|---|
| TH001 | Black |
| TH008 | Dead Front Black |
| TH010 | Tinting Black |
| TH021 | White |
| TH-023 | Extra Opaque White |
| TH-030 | Tinting White |
| TH041 | (s) Light Yellow/Seritone Yellow (GS) (T) |
| TH043 | (s) Mid Chrome/Seritone Yellow (RS) (T) |
| TH102 | (s) Deep Orange/Seritone Orange (T) |
| TH121 | (s) Vermilion/Seritone Red (YS) (T) |
| TH164 | (s) Seritone Red (BS) |
| TH165 | (s) Seritone Magenta |
| TH127 | (s) Deep Violet/Seritone Violet |
| TH233 | (s) Seritone Blue (RS) |
| TH230 | (s) Seritone Blue |
| TH325 | (s) Seritone Green |
| TH381 | Extender Base |

(s) = Seritone Base Colours

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

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

(T) = Contains Lead

Available in 5 kg and 1 kg containers.

Seritec TH Transparents:

| | |
|-------|-----------------------------|
| TH052 | Transparent Primrose |
| TH044 | Transparent Golden Yellow |
| TH110 | Transparent Orange |
| TH133 | Transparent Brilliant Red |
| TH131 | Transparent Red |
| TH135 | Transparent Magenta |
| TH155 | Transparent Violet |
| TH215 | Transparent Monastrial Blue |
| TH318 | Transparent Brilliant Green |
| TH419 | Transparent Extender Base |

Available in 1 kg containers.

Solvents:

| | |
|-------|---------------------|
| ZE598 | Thinner |
| ZV551 | Thinner and Cleaner |
| ZE801 | Retarder |

Available in 25, 5 and 1 ltr containers.

Universal Tinters

A range of 10 highly concentrated colour bases for tinting. They are designed to mix easily into Seritec TH. Up to 10% tinters may be added. See Information Sheet 'Universal Tinters, Metallic Inks and Varnishes'.

Special Matches

Colours 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 kg.

Safety and Handling

Seritec TH Transparents:

- Are formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.
- Are formulated free from lead and other heavy metals and therefore should comply to the EN71-3: 1988 Toy Safety Standard.

Seritec TH Standard Colours:

- Contain heavy metals and do not therefore comply with EN71-3: 1988 Toy Safety Standard.

Comprehensive information on the safety and handling of Seritec TH screen inks and solvents is given in the appropriate Sericol Safety Data 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 as described in the Montreal Convention.

* Pantone, Inc.'s check-standard trademark for color.

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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