



## Solvent-based Trichromatic Inks for Paper & Board

### HYSTAR HY – PROSTAR OS – TRISTAR GT

Hystar HY, Prostar OS and Tristar GT are trichromatic ink ranges developed for use on paper, display and corrugated board. Each of these, fast, jet drying ranges, has excellent screen stability and self-solvency. They are suitable for use on most types of production equipment.

The ranges are primarily differentiated as follows:

|                   |                     |
|-------------------|---------------------|
| <b>Hystar HY</b>  | <b>Gloss Finish</b> |
| <b>Prostar OS</b> | <b>Satin Finish</b> |
| <b>Tristar GT</b> | <b>Matt Finish</b>  |

### Printing

Although these inks are designed for use with finer grades of screen fabrics, \*e.g. Nos. 100-140 monofilament screens, there are no limitations on the grade of fabric. The clarity and cleanliness of the inks enables them to be printed in any colour sequence.

Extender Base may be used to reduce the colour strength of the inks. Prostar OS inks exhibit exceptional screen stability and after short production breaks any detail lost can be quickly regained with a few proof pulls. The excellent printing characteristics of all these inks make them suitable for trouble free production of halftone screen rulings of 100 lines per inch (40 lines per cm) or above. The trichromatic colours conform to DIN 16538/9 (BS 4160/4666) when printed through No. 120T monofilament screens.

### Poster Pastes

Although Prostar OS and Tristar GT can be used for printing multi-sheet posters, certain adhesives and poster pastes can adversely affect the printed ink film and customers are recommended to ensure that those used are compatible with the inks employed.

### Standard Colours

to DIN 16538/9

|               | <b>Hystar</b> | <b>Prostar</b> | <b>Tristar</b> |
|---------------|---------------|----------------|----------------|
| Yellow        | HY052         | OS052          | GT052          |
| Magenta       | HY135         | OS135          | GT135          |
| Cyan          | HY215         | OS215          | GT215          |
| Black         | HY004         | OS004          | GT004          |
| Extender Base | HY396         | OS396          | GT396          |

Available in 5 ltr containers.

### Solvents

|       |                     |
|-------|---------------------|
| ZC521 | Thinner             |
| ZC529 | Retarder            |
| ZC530 | Thinner and Cleaner |

Available in 15, 5 and 1 ltr containers.

|       |        |
|-------|--------|
| ZS640 | Tursub |
|-------|--------|

Available in 5 and 1 ltr containers.

### Main Characteristics

#### Finish

**Hystar HY:** Gloss, **Prostar OS:** Satin, **Tristar GT:** Matt

#### Drying

**Hystar HY:** Jet drying: 30-50°C, 12-15 seconds.

Air drying: 3-5 minutes.

**Prostar OS:** Jet drying: 25-30°C, 12-15 seconds.

Air drying: 3-5 minutes.

**Tristar GT:** Jet drying: 30-50°C, 10-12 seconds.

Air drying: 3-5 minutes.

#### Thinning

**Hystar HY:** 25-40% with ZC521. ZS640 or white spirit may be used but loss of drying speed/self-solvency may result.

Hot shop conditions use ZC529, when overprinting Seristar SX use ZC530.

**Prostar OS:** 20-30% with ZC521 or ZS640.

Hot shop conditions use ZC529.

**Tristar GT:** Up to 25% with ZC521. ZS640 or white spirit may be used but loss of drying speed/self-solvency may result.

Hot shop conditions use ZC529.

#### Wash-up

Seriwash Universal Screen Wash or Actisol Superjet Screen Spray.

#### Mesh

Nos. 100-140 monofilament.

#### Stencil Recommendation

Dirasol 902, Dirasol 916. Indirect or 25 micron capillary film

#### Coverage m<sup>2</sup>/ltr through No. 120 Mesh

**Hystar HY:** 75-85. **Prostar OS:** 80-90. **Tristar GT:** 70-80.

#### Co-use with Other Inks

**Hystar HY:** may be mixed with Tristar GT, Prostar OS, or Colorjet CO. May also be printed over these inks but should not be overprinted by Tristar GT. Hystar may be overprinted by Seristar SX, but when printing over Seristar SX, Hystar should be thinned with ZC530.

**Prostar OS:** may be mixed with Tristar GT or Hystar HY for intermediate finishes. May also be mixed with Colorjet CO but not with Colorstar CS or Seristar SX.

Prostar OS has a similar satin finish to Colorstar CS and is suitable for combined use. When overprinting Colorstar CS, thin with ZC530 to ensure satisfactory intercoat adhesion.

**Tristar GT:** may be mixed with Prostar OS, Hystar HY and Colorjet CO. May be overprinted by Prostar OS, Hystar HY and Colorjet CO.

**IMPORTANT: Stir well before every use. None of these inks should be overprinted with UV curing varnishes.**

**Sericol Technical Service Department should be consulted where overvarnishing is a requirement.**

## Trichromatic Concentrates TZ

Trichromatic Concentrates TZ have been specially designed for use in Hystar, Tristar and Prostar. They may be added in any proportion to strengthen one or more of the trichromatic colours or to suit particular production procedures (e.g. the use of ultra-fine screen fabric). Use of Trichromatic Concentrates TZ is recommended in preference to Universal Tinters because printing and drying performance is not impaired.

|       |         |
|-------|---------|
| TZ052 | Yellow  |
| TZ135 | Magenta |
| TZ215 | Cyan    |

Available 1 ltr containers.

## Safety and Handling

Hystar HY, Prostar OS & Tristar GT:

- 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.

Comprehensive information on the safety and handling of Hystar HY, Tristar GT and Prostar OS screen inks and solvents is given in the appropriate Sericol Safety Data Sheet, available on request.

## Environmental Information

Hystar HY, Prostar OS & Tristar GT:

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

*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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