

Hiflex EY

Screen Inks

(Patent Pending)

SERICOL

Product

Information

Hiflex EY is a UV curing ink system incorporating Sericol's pioneering 'Stress Diffusion Technology'. Its excellent flexibility makes it particularly suitable for printing onto thin gauge PVC material commonly used for the production of self-adhesive stickers for bus-sides, window stickers and visual packaging

Main Characteristics

Finish	Drying	Thinning & Wash-up	Mesh	Stencil Type	Coverage & Mesh No.	Applications	Colour Range
Gloss	25 - 30 metres per minute through 150.34 PW mesh with 2 x 80 watt/cm lamps (see curing information)	Up to 10% ZE829 Do not use any other thinner. Wash up with: CPS Screen Wash A5 CSWA505 or Wash up No. 1 857121. Do not wash up with ZE829.	140.34 - 165.34 PW monofilament. If coarser meshes are used adhesion levels and embrittlement properties may be impaired.	Any UV resistant stencil. Sericol Emulsion: Dirasol 915 Dirasol 916 Indirect or 18/25 Micron Capillary Film	80 - 90 m ² /L through 150.34 PW mesh	Self-adhesive PVC, thin gauge semi-rigid vinyls, vinyl banners and 100 micron fleet transfer vinyls.	22 fade resistant lead-free shades including mixing range, structured and unstructured process colours.
Properties Excellent flexibility and minimal embrittlement (shattering) characteristics. Solvent free with negligible atmospheric pollution. Good chemical and solvent resistance make it ideal for use with 100 micron fleet vinyl for bus sides.				Co-use with other inks It is not recommended that Hiflex EY inks be mixed with any other UV or solvent-based inks.			

IMPORTANT: Stir well before every use. Full intercoat adhesion may not develop until 24 hours after printing and should be evaluated under production conditions before commencing a commercial print run

Curing Information

Actual curing rates for Hiflex EY depend on a number of factors including film thickness, the number and types of lamps used (including lamp emission spectrum, power and efficiency) and the stock being printed.

Although cure speeds are similar, care should be taken that each colour is cured correctly to achieve optimum adhesion to substrate and overprint adhesion of subsequent colours.

Post Curing

The chemical reaction initiated by the UV dryer will continue for some time after the dried prints emerge from it. This reaction can adversely affect intercoat adhesion and care should be taken that prints are not over-cured and that the adhesion of subsequent colours is checked at regular intervals.

Process Colours

In some circumstances Hiflex EY process colours are used in conjunction with Plactical PC line colours **IMPORTANT:** Intercoat adhesion between Hiflex and Plactical might be inadequate where the Plactical colour has been printed first.

It is therefore recommended that the Hiflex process colours be printed first and the Plactical colours printed subsequently.

Embrittlement (Shattering)

The unique formulation of Hiflex EY allows for decoration of thin gauge PVC without the shattering problem normally associated with UV ink systems.

Pre-Production Tests

All plastics should be tested before use as some similar plastics can vary between different manufacturers and different batches.

The low embrittlement properties of Hiflex EY may vary from plastic to plastic. Full multilayer coverage through a coarse mesh would give the harshest result. It is therefore recommended that plastics be tested at the maximum envisaged coverage to ensure that the final print will suit the intended purpose.

Certain plastics may be impregnated with lubricants which, as with plasticiser migration, may impair adhesion even a considerable time after printing. This can usually be overcome by wiping the surface with white spirit before printing.

Flexibility

Hiflex EY inks will meet the rigorous demands of the short-term decal market for flexibility. On suitable materials prints can be form-cut or guillotined without cracking or flaking.

Standard Seritone Colours

EY001	Tinting Black
EY021	White
EY064	Yellow GS
EY066	Yellow RS
EY114	Orange
EY121	Red YS
EY164	Red BS
EY165	Magenta
EY127	Violet
EY230	Blue
EY325	Green
EY383	Extender Base

Hiflex EY additional colours

EY010	Black
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Hiflex EY Process Colours

Structured:

EYB05	Yellow
EYB07	Magenta
EYB06	Cyan
EYB08	Black
EYB09	Extender

Unstructured:

EY13645	Yellow
EY13647	Magenta
EY13646	Cyan
EY13648	Black

Available in 5kg containers.

Reducer

ZE829 Hiflex EY Thinner

Available in 5L container.

Outdoor Use

Accelerated weathering tests have been carried out using a Xenon Arc Weatherometer set to the SAE J1960 standard. Under these conditions the weathering of Hiflex EY equates to at least approximately 18 months outdoor exposure in a temperate climate.

Safety and Handling

Hiflex EY inks are:

- Formulated to be free from any known or suspected toxic, carcinogenic, mutagenic or reprotoxic chemicals.
- Formulated free from lead and other heavy metals

Comprehensive information on the safety and handling of Hiflex EY screen inks and thinners is given in the appropriate Sericol Material Safety Data Sheet (MSDS), which is available upon request.

The MSDS should be consulted before handling any inks or chemicals.

Environmental Information

The Hiflex EY system:

- Is free from heavy metals
- Does 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 fully meet 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
More than ink...Solutions.

FUJIFILM Sericol Australia Pty Limited, 4 Coronation Ave, Kings Park, NSW 2148
Telephone: (02) 8825 2700 Fax: (02) 9621 8100

Technical Helpline : 1300 135 357

Orders Hotline : 1300 650 504