

Special Plastisol Inks and Additives

PRODUCT INFORMATION

This product information outlines the range of Sericol specialised plastisol inks and additives available from Fujifilm to complement the line printing colours in the Texopaque Classic OP, Advantage ON and Pioneer Ultra YC ranges.

Trichromatic Inks (Four Colour Process)

Fujifilm offers two sets of Texopaque plastisol trichromatic inks:

ON Trichromatics – Phthalate Compliant⁽¹⁾:

A 'press ready' ink ideal for use through 90-120 mesh, matched to DIN 16538/9 colour standard.

ON058 Trichromatic Yellow
ON135 Trichromatic Magenta
ON215 Trichromatic Cyan
ON004 Trichromatic Black

Available in 5 ltr containers.

OP High Strength Trichromatics:

Approximately twice the pigment content of ON Trichromatics for use with very fine mesh (>120) counts and/or to enable users to modify with Extender Base for specific needs. Matched to DIN 16538/9 colour standard.

OP058 Trichromatic Yellow
OP135 Trichromatic Magenta
OP215 Trichromatic Cyan
OP004 Trichromatic Black
OP396 Trichromatic Extender Base

Available in 5 ltr containers.

OP396 Trichromatic Extender Base can be added into Texopaque Classic OP inks to modify colour strength. It can also be used to modify the rheology of the ink to improve dot definition.

The addition of OP396 to Advantage ON inks is not recommended.

The full cure temperature for the OP/ON Trichromatic ranges is 160°C.

Special Plastisol Inks Phthalate Compliant⁽¹⁾

Metallic Inks

Highly opaque metallic inks that maintain their brilliance after washing. Mesh 34 or coarser recommended.

Cure temperature 160°C required. Intermixable with other Sericol Plastisols⁽²⁾.

ON475 Metallic Gold
ON476 Metallic Silver

Available in 5 ltr containers.

Dry Glitter Base

Transparent base especially designed for mixing with glitter powders. Produces prints with 'dry' glitter effect, with brilliant sparkle and good wash fastness.

Mesh 34 or coarser recommended, depending on size of flake used. Refer to the 'Glitter Powders' product information sheet.

Cure temperature 160°C required. Intermixable with other Sericol Plastisols⁽²⁾.

ON370 Dry Glitter Base

Available in 5 ltr containers.

Multipurpose Base

A highly transparent elastic base, suitable for many applications. A clear base for sprinkling and dipping glitter powders, beads and sequins – add 5% EZ444 for good wash resistance for these applications. A gloss over-print varnish, particularly effective when printed through a mesh 43 or coarser and dried at an elevated temperature. A stretch additive when added at over 20% into a Plastisol ink.

Cure temperature 160°C required. Intermixable with other Sericol Plastisols⁽²⁾.

GB397 Multipurpose Base

Available in 5 ltr containers.

Advantage Transparent Glitter Base

A transparent base, particularly for sprinkling and dipping glitter powders, beads and sequins.

Cure temperature 160°C required. Intermixable with other Sericol Plastisols⁽²⁾.

ON397 Multipurpose Base

Available in 5 ltr containers.

Phosphorescent Green

Glow in the dark ink. Mesh 34-43 recommended. A cure temperature of 160°C is required.

Mixing with additional ON colour should be minimised due to the loss of the "glow in the dark" nature of the product⁽²⁾.

SERICOL

ON327 Phosphorescent Green

Available in 5 ltr containers.

Metatran Adhesive

Adhesive for accepting foil transfers with good wash resistance. Can be used as an opaque stretch additive at over 20% in the print. Can also be used as a flocking base, with 3% YC444, where a Phthalate Compliant⁽¹⁾ flocking base is required.

Mesh 34-62 recommended, 43 or coarser where used as a flocking base. Cure temperature 160°C required.

ON421 Metatran Adhesive

Available in 5 ltr containers.

Fastness

All of the products listed above should produce prints with wash fastness up to 60°C. Test and confirm suitability prior to production.

Prints may be ironed from the back of the fabrics at a cool setting with a cloth over the printed area. Prints will not resist dry cleaning and garments should be marked to this effect.

Plastisol Inks Tool Kit

These products can be added to Sericol plastisols to modify their characteristics as detailed below⁽²⁾.

ON591 Advantage ON Flow Thinner

YC591 Pioneer YC Flow Thinner (Ø)

Available in 5 ltr containers.

Add up to 5% to the appropriate Sericol plastisol to increase flow.

Caution: Can cause inks printed over flash cured whites to become glossy.

Use ON591 where Phthalate Compliant⁽¹⁾ prints are required. Use YC591 where PVC-free and Phthalate Compliant⁽¹⁾ prints are required.

EZ444 Nylon Catalyst (Ø)

Available in 1 ltr containers.

Add 5% to any Sericol plastisol to improve adhesion on many nylon and synthetic fabrics. Helps reduce fibrillation on cotton fabrics. Mixed inks have a pot life of 8 hours. For maximum adhesion to synthetic fabrics use Nylobag NB or Nylotex NX inks. Use YC444 Pioneer YC Catalyst where Phthalate Compliant⁽¹⁾ prints are required.

YC444 Pioneer YC Catalyst (Ø)

Available in 1 ltr containers.

Add 3% to Pioneer Ultra YC441 High Density Clear to produce a PVC/Phthalate free adhesive for glitter, beads, sequins and flock transfer. Can also be used to maximize adhesion of Pioneer Ultra YC onto denim fabrics. Can also be added to Taxiscreen AJ inks where improved adhesion on certain garments is required.

Mixed inks have a pot life of 8 hours. Phthalate Compliant⁽¹⁾.

OP417 Expanding Base

Base for mixing with plastisol inks to produce expanding prints. Available in 1 & 5 ltr containers.

Recommended mixing ratio 3 parts OP417 to 1 part ink⁽²⁾. Mesh 62 or coarser recommended. Do not over cure or ink film will collapse. Add to Flash Cure White to reduce after tack. Up to 5% can be added to plastisols to reduce gloss levels.

ON417 Expanding Base (‡)

High-strength base for mixing with plastisol inks to produce expanding prints. Available in 5 ltr containers.

Recommended mixing ratio 1 part ON417 to 3 parts ink⁽²⁾. Mesh 62 or coarser recommended. Do not over cure or ink film will collapse. Add to Flash Cure White to reduce after tack. Up to 5% can be added to plastisols to reduce gloss levels. Phthalate Compliant⁽¹⁾.

YC417 Expanding Base (Ø)

Base for mixing with plastisol inks to produce expanding prints. Available in 5 ltr containers.

Recommended mixing ratio 3 parts YC417 to 1 part ink⁽²⁾. Mesh 62 or coarser recommended. Do not over cure or ink film will collapse. Add to Flash Cure White to reduce after tack. Up to 5% can be added to plastisols to reduce gloss levels. Phthalate Compliant⁽¹⁾.

ON439 Soft Hand Base

Available in 5 ltr containers. Add up to 80% to any Sericol plastisol to soften 'hand' of print. Expect a corresponding loss of opacity. Phthalate Compliant⁽¹⁾.

EZ384 Matting Base (Ø)

Available in 5 ltr containers. Controls the finish of any Sericol plastisol - especially useful in reducing gloss effect of colours printed over Flash Cured Whites. 5% addition recommended.

Fujifilm Speciality Ink Systems Limited:

- Has certification to the International Environmental Standard, ISO 14001.
- Has certification to the Quality Management Standard, ISO 9001.
- Has certification to the Occupational Health and Safety Standard, ISO 18001.
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.
- Research and development team, work to an in house Health Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

The Special Plastisol Inks and Additives range:

- Is formulated to be free from any chemicals toxic to health, carcinogenic, mutagenic or reprotoxic according to Directive 67/548/EC – **with the exception of EZ384 and EZ444.**
- Unless otherwise indicated, colours in the range are routinely tested and supplied EN71-3 2013 approved.
- Products marked (‡) are formulated to comply with EN71-3 2013, but are not routinely tested for compliance with the standard.
- Products marked (Ø) are not formulated to comply with EN71-3 2013.
- For optimum shelf life, all products should be stored at moderate temperatures, between 5°C and 30°C. Storage outside of these temperatures may lead to deterioration in the performance of the product.

In addition to the above, Advantage ON:

- Is formulated free from phthalate plasticisers.

Comprehensive information on the safety and handling of these products is given in the appropriate Safety Data Sheets.

Environmental Information

The Special Plastisol Inks and Additives range:

- Does not contain ozone-depleting chemicals as described in the Montreal Convention.
- Is formulated free from aromatic hydrocarbons – **with the exception of ON475.**
- Is free from any volatile solvent and can therefore be considered to have less impact on the environment when compared to solvent-based products.

In addition to the above, Pioneer YC:

- Is formulated free from PVC containing resins.

IMPORTANT: The Advantage ON and Pioneer YC ranges have been developed not to contain phthalates restricted for use by Council Directive 76/769/EEC (as amended) and the Pioneer YC range has been developed using non PVC resins. However, the possibility for low level contamination during the manufacturing process exists.

In addition, users must be aware of potential sources of contamination such as squeegees, flood coaters, screens and curing equipment which may all contribute trace amounts of restricted phthalate materials from previous use with other plastisols.

Öko-Tex Standard 100

Contact your Fujifilm supplier for the latest information concerning the compliance of Sericol inks.

(1) Phthalate Compliant means that the products listed in this Product Information Sheet are formulated not to contain the Phthalates restricted for use by Council Directive 76/769/EEC (as amended).

(2) Please ensure the correct plastisol is used when intermixing with other Sericol plastisols. Do not intermix PVC-Free / Phthalate Compliant inks with PVC/Phthalate containing inks. The OP special plastisol inks should NOT be used with the ON or YC ink ranges. The ON special plastisol inks should NOT be used with the YC ink range.

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Speciality Ink Systems Limited and its associated companies, 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.

FUJIFILM SPECIALITY INK SYSTEMS LIMITED

Pysons Road, Broadstairs
Kent CT10 2LE
United Kingdom
T: +44 (0)1843 866668
F: +44 (0)1843 872184
www.fujifilm.eu