

Product Information



Polydyne YD Screen Inks

Polydyne YD is an ink with excellent adhesion to untreated and pre-treated polypropylene and polyethylene sheets and injection mouldings.

Plastics

Certain grades may be impregnated with lubricants or mould release agents which, through migration, may impair adhesion even a considerable period after printing. It is essential to check compatibility between ink and plastic to guard against any possible problems. Polydyne YD is not recommended for use on either untreated or pre-treated blow moulded flexible and semi-rigid containers such as washing up liquid bottles.

Product Resistance

Polydyne YD inks have resistance to a number of household and industrial products, including battery acid, bleach, washing up liquid, sodium hydroxide and motor oils. However, before commencing production it is recommended that inks are tested in conjunction with any chemical with which they are likely to come into contact. Polydyne YD may be used on polypropylene binders. However, for this and other applications which are subjected to frequent handling the inks should be overvarnished with YD381 Extender Base to avoid smearing of colour.

Polydyne inks are not recommended for outdoor exposure applications.

The Seritone Matching System

The standard range of Polydyne YD shades consists of the Seritone Matching System which enables printers to readily match special colours.

This system consists of 9 base colours, each selected for its cleanliness of tone and suitability for intermixing. Using the Seritone base colours plus Black, White and Extender Base, almost any colour can be produced. The Seritone bases can be used as printing colours but because of the required cleanliness of tone these colours, though strong, are in some cases relatively transparent.

Standard Colours

Polydyne YD:

YD001	Black
YD021	White
YD381	Extender Base

Available in 5 kg containers

YD064	(s)	Seritone Yellow (GS)
YD066	(s)	Seritone Yellow (RS)
YD114	(s)	Seritone Orange
YD121	(s)	Vermilion/Seritone Red (YS)
YD164	(s)	Seritone Red (BS)
YD165	(s)	Seritone Magenta
YD127	(s)	Deep Violet/Seritone Violet
YD230	(s)	Seritone Blue
YD325	(s)	Seritone Green

Available in 1 kg containers

Main Characteristics

Finish
Satin

Drying

Jet drying: 60°C, 15-20 seconds.
Air drying: 15-20 minutes.
Convection oven: 70°C 1-2 minutes.

Thinning & Wash-up

10-15% ZC521.
For slow production or very fine detail in hot conditions use ZC529.
Wash-up with Seriwash Universal Screen Wash, ZC521 or Actisol Superjet Screen Spray.

Mesh

Nos. 90-120 monofilament

Stencil Type

All solvent resistant.
Recommend:
Indirect or capillary film
Sericol: Dirasol 902, Dirasol 916

Coverage & Mesh No.

55-65 m²/kg No. 120

Applications

Untreated and pre-treated polyethylene and polypropylene, including 'Priplak' and 'Doeflex' sheet materials.

Colour Range

11 including the Seritone Matching System.

Properties

Fast, jet drying to scuff resistant finish.
Excellent screen stability. Resistant to battery acid, bleach, detergents, alkalis and motor oils.

Co-Use With Other Inks

Polydyne YD White or Extender Base may be used as a primer for polyolefin which readily accepts Plastijet XG, Plastijet TG, Polyplast PY and Plastipure Fluorescent FP. This allows production of high gloss prints, four colour halftones and fluorescents.

IMPORTANT:

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

Solvents

ZC521 Thinner
ZC529 Retarder

Available in 1 ltr containers.

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, should be attached to orders. The product resistance required of special matches may be important and it is necessary that full details of the product involved and the process to be followed are supplied. Our Customer Service Department will be pleased to advise on non-standard colours. Minimum quantity 5 kg.

Fujifilm Sericol UK Limited:

- Has certification to the International Environmental Standard, ISO 14001
- 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 & 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

Polydyne YD:

- All colours except YD021 white and YD381 Extender Base contain barium and therefore should not be used on objects liable to be sucked or chewed by children.

Comprehensive information on the safety and handling of Polydyne YD screen inks and solvents is given in the appropriate FUJIFILM Sericol Safety Data Sheet, available on request.

Environmental Information

Polydyne YD:

- 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 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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