

Speciality Screen

ink

Container Decoration

UNIPOL UF

Screen inks for Polyethylene
& Polypropylene Containers

FEATURES

- Solvent Based two-pack system
 - Fast Drying
 - Excellent Screen Stability & Self Solvency
 - High Gloss
 - Suitable for Machine & Manual Printing.
 - Gives higher productivity & profitability
 - Good abrasion resistance.
 - Good resistance to a wide range of products
 - Unlimited colour matching capability
 - Capability of matching metallics.
- Indoor application only.

Substrate:

Pre-treated polyethylene and polypropylene

TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN.

SERICOL
More than ink...Solutions.
FUJIFILM

Applications:

The Unipol UF inks are used for screen printing of pre-treated polyethylene and polypropylene containers that are used for packaging of cosmetics, detergents, mild bleaches, motor oil, etc. where resistance to strong bleaches is required Seripol SP inks should be used.

Caution: Unipol inks are not recommended for use in applications where outdoor exposures is a possibility.

Colour Range:

The Unipol UF Ink System includes Seritone Matching System colours, Line colours, Extender Base and catalyst.

Metallic:

A range of metallics can be developed on request. Caution: The product resistance of metallic inks is usually inferior to non-metallic colours. Secondly, metallic inks have a short shelf life of less than six months from the date of manufacture.

Colour Matches:

Colour matches can be supplied against prints and / or wet ink.

Unipol UF Catalyst- DP 386:

DP-386 catalyst is recommended to obtain maximum adhesion and product resistance with plastics which are difficult to pre-treat and for grades containing high levels of anti-static additives. It should be added in the following proportions.

Unipol UF Ink 9 parts by weight

DP-386 catalyst 1 part by weight

Note: It is recommended that only enough base

Important:

Catalyst mixed inks should be used within 24 hrs, and left over inks should not be transferred to uncatalysed fresh ink pots.

Note: Check for product resistance by Unipol UF prints before use in production.

Note: For satisfactory product resistance to

Line Colours:

UF 001	Black
UF 009	Dense Black
UF 021	White
UF 023	Extra Opaque White
UF 043	Seritone Yellow (RS)
UF 064	Seritone Yellow (GS)
UF 114	Seritone Orange
UF 121	Seritone Red (YS)
UF 122	Scarlet
UF 127	Seritone Violet
UF 164	Seritone Red (BS)
UF 165	Seritone Magenta
UF 203	Mid-Blue
UF 204	Royal Blue
UF 225	Ultramarine
UF 230	Seritone Blue
UF 283	Bright Green
UF 325	Seritone Green

Uvipol UF Reducers:

ZE 571	Thinner
ZE 578	Retarder
ZE 579	Fast Thinner
SS 565	H D Reducer

Pre-Treatment of Substrate:

The substrate must be flame pre-treated to a level of 48 to 54 dyne/sq.cm. prior to screen printing.

To ensure proper adhesion of Unipol UF inks:

- a) The flame treatment level must be uniform over the entire area of the substrate
- b) The substrate must be free of any oily substance, dirt and moisture before flame treatment is given.
- c) The flame treated substrate (surface) must not be handled with bare hands or with materials that will attract 'charge'.

Thinning:

Maximum of 20% by weight of ink used. Various options for thinning are available. Please refer to section on 'Solvents'.

Mesh:

Print the Unipol UF inks & metallics through 90/cm to 140/cm, monofilament polyester fabric, depending on the application. Depending on particle size, metallics may have to be printed through mesh that is coarser than 90/cm. For fine details & half tone printing, use amber or yellow coloured fabric.

Stencils:

Stencils can best be prepared with Sericol's stencil making products:

Xtend Prep 101: for abrasion of screen mesh

Xtend Prep 102: for degreasing of screen mesh

Emulsions: Single pack emulsion Dirasol 132 or two-pack emulsions, viz., Dirasol 915, Dirasol 916 or Dirasol Super Coat or 25 micron capillary film.

Wash Up:

Wash up screens with SS639 Universal Screen Wash or ZE 579 or Actisol Superjet Screen Spray.

Drying:

Air dry: between 10 to 15 minutes, depending on size of printing, Allow sufficient time for through cure.

Convection Oven dry: 80 to 85 degree centigrade, for up to 120 seconds. Prints must be cooled to ambient temperature before packing.

Post Curing:

Chemical reaction initiated by the catalyst will continue for sometime after the dried prints emerge from the drier. In certain circumstances this reaction can adversely affect inter-coat adhesion and any overprint should be applied as soon as possible and preferably in-line on a multi-colour machine.

Product resistance:

Unipol UF inks mixed with DP 386 catalyst have good resistance to a wide variety of products including cosmetics, detergents, mild bleaches, motor oil, etc and various solvents.

Pre-production Test:

Always test for Adhesion and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches. Other plastics can become brittle or cause to curl after printing.

Important: End user must determine suitability of this product for the intended use prior to production.

Storage:

- Keep inks in cool place, away from direct sunlight.
- Keep lids tightly closed when not in use.
- Any unused ink should not be returned to can,
- must be stored separately.

Safety and Handling:

Unipol UF products are formulated free from lead and other heavy metals. Comprehensive information on the safety and handling of Unipol UF screen inks and solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information:

Unipol UF Ink System does not contain ozone depleting chemicals as described in the Montreal Convention.

Fujifilm Sericol India Pvt Ltd

- Has certification to the international Environmental Standard, ISO 14001.
- Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reduce waste through better use of raw materials, energy, water, re-use and recycling.

Important Note:

The information and recommendations contained in this product information sheet as well as technical advice otherwise given by representative of our company, whether verbally or in writing, are based on our present knowledge and experience. Such information/ technical advice is given in good faith, but without warranty, in view of the many factors that may affect processes or applications 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 the products will meet fully the particular requirements of the labels/ brands/ agencies of their clients and also that no proprietary rights and existing laws and legislation are violated.

Our advice does not relieve processors from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance in respect of properties or suitability for a specific purpose or of the legal status of the listed products.

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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