

# Dry Offset UV

# Inks



## UVIPOL DOF

UV Curing Dry offset Inks for printing on Pretreated Polypropylene and polyethylene.

### FEATURES

- High gloss finish.
- Fast curing speed.
- Tack levels designed to give excellent roller transfer & pan feed.
- Wide adhesion range
- Excellent rub resistance for the cure films.
- Superior print definition.
- Colour Matching Capability
- Strong colour vibrancy and density.
- Very low odor.
- Solvent free.
- Free from toxic elements
- NVP and volatile amine free.

### SUBSTRATE:

Pretreated Polypropylene and polyethylene

TEST INKS ON SUBSTRATES  
BEFORE PRODUCTION RUN

**SERICOL**  
More than ink... Solutions.  
FUJIFILM

## APPLICATIONS

UVIPOL DOF Dry offset inks are designed for use on Pretreated PE/PP Containers.

## PRINT CHARACTERISTICS

UVIPOL DOF Series has superior printability with a smooth, even surface, and a “press friendly” body, which transfers well onto the feed roller without backing away. UVIPOL DOF Series inks provide consistently crisp character definition, with sharp copy and clean reverses. They also exhibit good flow, leveling, and gloss. UVIPOL DOF inks offer the additional benefit of exceptional color density. Pinhole free, high-density solid areas. Intercoat adhesion and trapping are excellent. UVIPOL DOF Series is compatible with all plates designed to work with UV bases inks, and is ideal for long print runs, process work, extremely fine copy or reverses.

## ADDITIVE

Release Additive  
Thin Reducer  
UV Cure Additive

## CURING

Cure speed is dependent on film thickness, colour and opacity coupled with lamp type and condition. UVIPOL DOF dry offset inks can be cured by using medium pressure mercury Vapour lamps (120-160 W/cm and optimum energy output is 250-300 Millijoule/cm<sup>2</sup>). UV curing is followed by 24 hours post – cure phase after that film gets fully cured to get final properties. However it must be noted, that low radiation intensity, excessive film thickness can have a negative influence on the curing properties and adhesion.

## RESISTANCE

Resistance properties of the inks should be check after 24 hrs of printing operation.

## PRE-PRODUCTION TEST

UVIPOL DOF Series has been formulated to adhere to most corona or flame treated plastic materials with surface tension levels of 48-50 dyne/cm or higher. However, it is strongly recommended that all substrates to be tested before use, as supposedly similar substrates can vary between manufactures, and even between different batches from the same manufacturer. Certain plastics may be impregnated with lubricants, which, like plasticizer migration, may impair adhesion and block resistance, even a considerable period after printing. It also recommended to thoroughly test for compatibility when overprinted, as ribbons, toners and pigments used by overprint technologies can vary from batch to batch.

## IMPROTANT:

**END-USER MUST DETERMINE SUITABILITY OF THIS PRODUCT FOR THE INTENDED USE PRIOR TO PRODUCTION**





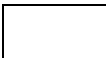
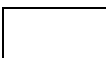





## CLEANING










To clean roller, plate and other equipment use FGS 100 roller Wash for cleaning.

## COLOUR AVAILABILITY

The UVIPOL DOF Series color range comprises standard halftone colors, opaque white and clear. Colour matches can be supplies against print or wet ink sample.

**UVIPOL DOF LIST OF PRODUCTS**

		<b>Light IWS</b>	<b>Shade</b>
<b><u>Product Name</u></b>			
UVIPOL DOF Process Yellow	<i>DOF 052</i>	7	
UVIPOL DOF Process Magenta	<i>DOF 135</i>	5	
UVIPOL DOF Pantone Cyan	<i>DOF 215</i>	7-8	
UVIPOL DOF Process Black	<i>DOF 004</i>	8	
UVIPOL DOF Overprint Clear	<i>DOF 383</i>	-	
<b><u>Product Name Basic Shade</u></b>			
UVIPOL DOF Mixing White	<i>DOF 030</i>	7-8	
UVIPOL DOF Opaque White	<i>DOF 023</i>	7-8	
UVIPOL DOF Yellow	<i>DOF 064</i>	7	
UVIPOL DOF Golden Yellow	<i>DOF 066</i>	7-8	
UVIPOL DOF Red (Blue shade)	<i>DOF 164</i>	6	
UVIPOL DOF Red ( Yellow shade)	<i>DOF 122</i>	6	
UVIPOL DOF Orange	<i>DOF 114</i>	5	

		<i>Light IWS</i>	<i>Shade</i>
<b><u>Pantone Shades</u></b>			
UVIPOL DOF Pantone Yellow C	<i>DOF 045</i>	7	
UVIPOL DOF Pantone Yellow 012 C	<i>DOF 046</i>	7	
UVIPOL DOF Orange 021 C	<i>DOF 115</i>	5	
UVIPOL DOF Warm Red	<i>DOF 199</i>	6	
UVIPOL DOF Red 032	<i>DOF 097</i>	6	
UVIPOL DOF Purple	<i>DOF 237</i>	5	
UVIPOL DOF Pantone Violet C	<i>DOF 128</i>	7	
UVIPOL DOF Pantone Reflex Blue	<i>DOF 260</i>	7-8	
UVIPOL DOF Pantone Blue 072 C	<i>DOF 254</i>	7-8	

## STORAGE

Keep inks in a cool place, away from direct sunlight or extreme temperatures. Keep lids tightly closed when not in use. Any unused ink should not be returned to the can; must be stored separately. Shelf life is twelve months from the date of manufacture, under storage at 10 C to 25 C Stir well before every use.

## SAFETY AND HANDLING

UV inks may cause irritations and increase the sensitivity of the skin, possibly leading to hypersensitivity. Therefore the use of disposable gloves and protective goggles is strongly recommended.

- Has a flashpoint greater than 55°C and is therefore not classified as a “dangerous substance” under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR)
- is not routinely tested, but is formulated to comply with the EN71-3 1995 Toy Safety Standard
- Comprehensive information on the safety and handling of UVIPOL DOF inks is given in the Material Safety Data Sheet, which is available on request.
- Are formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic chemicals.

## Fujifilm Sericol India Pvt. Limited

- 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.
- 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

## ENVIRONMENTAL INFORMATION

UVIPOL DOF inks:

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

Are formulated free from aromatic hydrocarbons, which are known to have an adverse effect on the environment.

Are free from volatile solvent.

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 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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International Standards Certifications  
R.No: OAC/R91/0919

International Standards Certifications  
R.No: EMS/R91/0919

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