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## Technical Data Sheet :

### Product Identification:

#### TRUPOLY DF SERIES

**Description:** **TRUPOLY DF** Inks are Deep Freeze & Fat Resistant inks for high quality Surface printing applications. Optimized to give best printing results.

TRUPOLY DF Inks are exclusively formulated with high Molecular weight, non-migrating plasticizer resins.

**End Use:** **TRUPOLY DF** Inks are designed especially for printing on Milk packages and Bread wrappers and General Food packages.

**Printing Machines:** **TRUPOLY DF** Inks are tailored to run effortlessly on Gravure as well as Flexo machines.

### Printing Substrates:

✓ **LDPE ( Treated > 38 Dynes )**

### Special Features:

- ❖ Excellent Deep Freeze resistance
- ❖ Excellent Fat Resistance
- ❖ Good Printing Stability
- ❖ Good Blocking resistance
- ❖ Excellent adhesion
- ❖ Good scuff resistance & slip properties: Could be further enhanced by Employing TIL Slip & Scuff Additive
- ❖ Excellent solvent release, enabling high press speeds to be used
- ❖ Designed to exhibit a low coefficient of friction
- ❖ May require some adjustments with very cold temperature climates

## Colour Range:

A full range of colors is available, which may only occasionally be restricted by end user requirements. The pigments used have reasonable commercial fastness to light but they may not withstand prolonged exposure to direct sunlight. If this property is required, it should be requested while placing orders.

## Process Colour Range:

Product Codes	Product Description	L.F. (1-8 Scale)
DFK-402-00	TRUPOLY D/F BLACK SUPER	7
DFY-403-00	TRUPOLY D/F T/R YELLOW	5-6
DFC-404-00	TRUPOLY D/F BLUE	7
DFM-405-00	TRUPOLY D/F MAGENTA	3-4

## White ,OPV and Extender Medium:

Product Codes	Product Description	L.F. (1-8 Scale)
DFW-401-00	TRUPOLY D/F WHITE SUPER	7
DFE-400-00	TRUPOLY D/F MEDIUM	N. A

## Standard Range:

Product Codes	Product Description	L.F. (1-8 Scale)
DFR-406-00	TRUPOLY D/F T/R RED	3-4
DFO-407-00	TRUPOLY D/F T/R ORANGE	5-6
DFG-408-00	TRUPOLY D/F GREEN	7
DFV-409-00	TRUPOLY D/F VIOLET	3-4

## Printing and Processing:

Viscosity adjustment should be started only after the ink is well mixed and the ink is at room temperature. Viscosity is adjusted by adding solvents slowly in small quantities. See under "Dilution".

The Actual viscosity used will depend on a number of factors, including print design, press conditions, the machine running speed and the desired colour characteristics.

## Dilution:

Solvent and solvent blends used for dilution may need to be adjusted in accordance to printing conditions: Namely, printing process, printing speed, oven capability, and graphics such as solids, lines, half tone and process printing.

To achieve good DOT RE-PRODUCTIONS, Use Extra Retarder

Depending on printing conditions, the following solvents may be used as retarder or accelerator.

*Accelerator:-* IPA

*Medium:-* Toluene

*Retarder:-* N-Butanol

## Reducing Systems

We recommend as a basic ratio:

### **Standard Gravure:**

IPA	50
Toluene	50

### **Standard Flexo:**

IPA	80
NBA	10
Toluene	10

**\*It is always better to mix the solvents before adding to the ink.**

## Shelf Life:

The inks and varnishes of this series have under normal conditions a shelf life of at least 6 months.

Normal conditions means:

- Storage in tightly closed containers
- No admixtures
- Temperature not exceeding 25°C for weeks or 30°C for days.

Short time excess-temperatures e.g. at transport are not harmful. The products are not sensitive to frost.

“Over-stored“inks (typical symptoms: fall in gloss, shift in shade, formation of odour and / or viscosity increase) may normally – *off colour being exceptions* - be used the same way as residual inks by controlled admixture to fresh inks

Increased viscosity due to long-time storage of inks may generally be adjusted by addition of a slightly higher amount of thinner than the usual.

***Please take notice of the following:***

*1. The performance results indicated in this literature are only indicative under controlled conditions of laboratory with virgin & standard packaging grade films. Please do not use lower grades or substandard films. Tirupati Ink Ltd., will not take any responsibility for abnormal results*

*2. Liability: While the information outlined is given in good faith, it does not constitute a guarantee and neither is one implied as to the specific end use suitability of any product. The customers should always evaluate the suitability of products to their own satisfaction*

*2.1. Tirupati Inks is responsible only to the tune of replacing the ink consumed in case of any printing related problems clearly assigned to in-compatibility with the ink system recommended by Tirupati Inks for the print job under consideration.*

*If you require any further information please do not hesitate to contact us or visit our website.*



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