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Technical Data Sheet :

Product Identification:

TRUPOLY 2 PACK SERIES

Description: **TRUPOLY 2 PACK** Inks supplied in 2 PACK systems (A part 95 % Ink and B Part 5% Hardener) are optimally pigmented inks, for Gravure Printing as well as Flexo, quality Surface printing applications on LDPE Films. Optimized to give best printing results. Just before Print run mix ink and hardener (2 Pack) in the ratio of 95:5. **Pot life of the mixed inks is less than 24 Hrs.**

End Use: **TRUPOLY 2 PACK** Inks are designed especially for detergent packaging and sometimes also for printing of Oil and Ghee Packaging jobs.

Printing Machines: **TRUPOLY 2 PACK** Ink is tailored to run effortlessly on Gravure machines as well as Flexo.

Printing Substrates:

- ✓ LDPE / HDPE Film (Treated > 38 Dynes)

Special Features:

- ✓ Good Printing Stability (Pot life of the inks after mixing A& B Part – efforts made to give much longer pot life when compared to competitors)
- ✓ Good chemical and detergent resistance
- ✓ Simple reducer system
- ✓ High gloss
- ✓ Good Blocking resistance
- ✓ Excellent adhesion on various filmic substrates
- ✓ 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

Colour Range:

A full range of colors is available, which may only be restricted by end application specialized requirements, necessitating colour matching work. Colours mentioned below have reasonable fastness to light (please refer to the Blue Wool Scale Ratings – 7 is highest and 1 is lowest), but some of them may not withstand prolonged exposure to direct sunlight. If this property is required, it should be clearly outlined while placing orders.

In case detergent or soap packing applications (and similar areas where higher degree of chemical resistance is desired) one must employ the AR/SR products only.

Process Colour Range:

Product Codes	Product Description	L.F. (1-8 Scale)
PLK-3702-00	TRUPOLY 2 PACK BLACK AR/SR SUPER	7
PLY-3703-02	TRUPOLY 2 PACK AR/SR YELLOW-12 C	3
PLC 3704 - 00	TRUPOLY 2 PACK AR/SR BLUE TR	7
PLM 3705 - 00	TRUPOLY 2 PACK AR/SR MAGENTA 1	4 to 5

White ,Hardener and Extender Medium:

Product Codes	Product Description	L.F. (1-8 Scale)
PLE-3700-00	TRUPOLY 2 PACK MEDIUM	NA
PLW-3701-00	TRUPOLY 2 PACK AR/SR WHITE SUPER	7
PLW-3701-01	TRUPOLY 2 PACK AR/SR WHITE SPL	7
PLA 3718 - 00	TRUPOLY 2 PACK HARDENER	NA

Standard Range:

Product Codes	Product Description	L.F. (1-8 Scale)
PLY-3703-00	TRUPOLY 2 PACK AR/SR YELLOW TPT GREENER-1	3-4
PLR 3706 - 00	TRUPOLY 2 PACK AR/SR RED TR	3
PLR 3706 - 01	TRUPOLY 2 PACK AR/SR GERANIUM	5-6
PLV 3709 - 01	TRUPOLY 2 PACK AR/SR VIOLET	7
PLG 3708 - 00	TRUPOLY 2 PACK AR/SR GREEN TR	7

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.

It is quite possible that, in case of very long run print jobs that the mixed ink (Apart + B Part) starts increasing in viscosity. In such cases, initially addition of extra reducer could be of help. After a certain point one either needs to throw away this ink and use fresh ink or mix the old ink with newly mixed ink.

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 in case of dots below 7 %, Use Extra Retarder

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

Accelerator:- IPA / Ethyl Alcohol

Medium:- Toluene / N Propyl Alcohol

Retarder:- N-Butanol

Reducing Systems

We recommend as a basic ratio:

Standard Gravure:

IPA	20
Toluene	80

Standard Flexo:

IPA	70
Toluene	20
NBA	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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