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Technical Data Sheet :

Product Identification:

TRUSHRINK PVC SERIES HP (R&D Temp. Name)

Description: **TRUSHRINK PVC HP** Inks are optimally pigmented and low viscosity inks, for Gravure Printing, high quality reverse printing applications – directed at Shrink PVC film applications. Optimized to give best printing results at press speeds commonly employed for such print jobs.

End Use: **TRUSHRINK PVC HP** Inks are designed especially for printing of label sleeves for Plastics Bottles.

Printing Machines: **TRUSHRINK PVC** Inks is tailored to run effortlessly on Gravure machines.

Printing Substrates:

✓ PVC Film

Special Features:

- ✓ Optimal strength inks
- ✓ Environment and health friendly solvent system
- ✓ High HR properties
- ✓ Good Printing Stability
- ✓ Good Blocking resistance
- ✓ Excellent adhesion on PVC films
- ✓ Good scuff resistance & slip properties: Could be further enhanced by Employing TIL Slip & Scuff Additive
- ✓ Excellent solvent release
- ✓ Designed to exhibit a low coefficient of friction
- ✓ Excellent freeze thaw resistance: making the ink suitable for the extreme cold weather countries

Colour Range:

A full range of colors is available, which may occasionally **may** be restricted by end **the end** user **specialized colour** requirements. The pigments used have reasonable fastness to light but they may not withstand prolonged exposure to direct sunlight. If this property is **desired or is of paramount importance**, then either one must employ the shades with 7 as Blue Wool Scale Light Fastness or request our R&D to make corresponding shades available with 7 as BWS light fastness.

Process Colour Range:

Product Codes	Product Description	L.F. (1-8 Scale)
HIK-2802-00	TRUSHRINK PVC BLACK SUPER	7
HIY-2803-00	TRUSHRINK PVC YELLOW TR	5-6
HIC-2804-00	TRUSHRINK PVC BLUE TR	7
HIM-2805-00	TRUSHRINK PVC MAGENTA	4 to 5

White ,OPV and Extender Medium:

Product Codes	Product Description	L.F. (1-8 Scale)
HIE-2800-00	TRUSHRINK PVC MEDIUM	N. A.
HIW-2801-00	TRUSHRINK PVC WHITE SUPER	7
HIW-2801-01	TRUSHRINK PVC WHITE	7

Standard Range:

Product Codes	Product Description	L.F. (1-8 Scale)
HIC-2804-01	TRUSHRINK PVC BLUE REFLEX	3
HIC-2804-02	TRUSHRINK PVC BLUE	7
HIR-2806-00	TRUSHRINK PVC RED TR	4
HIR-2806-01	TRUSHRINK PVC RED	4
HIO-2807-00	TRUSHRINK PVC ORANGE TR	5-6
HIO-2807-01	TRUSHRINK PVC ORANGE	5-6
HIG-2808-00	TRUSHRINK PVC GREEN TR	7
HIG-2808-01	TRUSHRINK PVC GREEN	3
HIV-2809-00	TRUSHRINK PVC VIOLET	3

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 RE-PRODUCTIONS for below 7 % dots, Use Extra Retarder

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

Accelerator:- Ethyl Acetate,

Medium:- Toluene; N Propyl Acetate

Retarder:- Butyl Acetate or Methoxy Propyl Acetate

Reducing Systems

We recommend as a basic ratio:

Standard Gravure:

Ethyl Acetate	50
Toluene	50

Ethyl Acetate	45
N Propyl Acetate	45
Methoxy Propyl Acetate	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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