HINDUSTAN FLEX LIMITED

Innovation Through Technology

Two Pack Inks

- **Description**

  Inks supplied in 2 pack systems (A part 95 % Ink and B Part 5% Hardener) are optimally pigmented inks, for Gravure as well as Flexo printing, 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.

- **Application**
  Detergent, soap, oil and ghee packaging

- **Print Process**
  Flexography and gravure

- **Print Substrate**
  Treated LDPE film (Minimum treatment level 38 dynes/cm)

- **Key Product Features**
  - ✓ Excellent printability and re-solubility
  - ✓ Good color strength
  - ✓ Excellent ink adhesion
  - ✓ Good Blocking resistance.
  - ✓ Good flow of ink
  - ✓ Designed to exhibit low Coefficient of friction

Solvent system	
For Gravure Printing	IPA : Toluene- 20 : 80
For Flexo Printing	IPA : Toluene: NBA- 70 : 20 : 10

- **Color 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 (and similar areas where higher degree of chemical resistance is desired) one must employ ARSR products only.**

- **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.

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
  - ❖ **To achieve good dot re-productions in case of dots below 7%, use extra retarder.**

- **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.

- **Shelf Life**

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

- ✓ Storage in tightly closed containers
- ✓ No admixtures
- ✓ Temperature not exceeding 25^0C for weeks or 30^0C 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 color 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.

- **Note**
  - ✓ 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. HFL, will not take any responsibility for abnormal results.
  - ✓ 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

- ✓ HFL 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 Vibrant Inks for the print job under consideration.

- **Remark**
  Not recommended for reverse printing lamination application.

- **Health and Safety**
  Read the health and safety guidelines before using these products. The user is responsible for all local legislation requirement and packaging conditions

- **Ink Handling**
  Please refer to general guideline for handling inks for flexible packaging

For further information, please contact-
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