
Technical Data Sheet

HD Series

HD Series (NC/PU) Flexographic Printing Inks high pigmented for high definition flexographic printing.

Designed for reverse printing and lamination applications.

Application Type:

- ▣ Flexographic printing high speed 150 to 600 m/min.

Substrates:

LDPE-HDPE, BOPP, Coex, Pearalized OPP film (min 38 dyn/cm), PET, Aluminums foil, Metalized OPP (with primary), Paper and Board.

Properties:

- ▣ Excellent gloss
- ▣ Low solvent retention
- ▣ Heat resistance to 150 - 180 °C
- ▣ Appropriate for lamination applications with solvent based or solvent less adhesives
- ▣ Appropriate for reverse printing and lamination applications

Recommended solvent: Ethyl Alcohol: Ethyl Acetate (4:1)

Retarder: Methoxy Propánol or Ethoxy Propanol

Accelerator: Ethyl Acetate

Varnish: HD 001 Varnish is used as a color lightener with the HD-Series.

Additional Information:

Substrate to be printed needs to have a corona treatment of min 38 dyn/cm.

Recommended anilox values are 120 - 600 line/cm.

Since the **HD** Series is designed for reverse printing and lamination applications, it has no scratch and rub resistant.

***Press Speed**

May be printed at speeds of 150 to 600 m/min using the appropriate reducers Printing Viscosities Inks must thoroughly be stirred and homogeneous before reducing with solvent. The optimum printing viscosity depends on press and running conditions (18-20 sec/cup4 at temp. 25).

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Adhesion promoter added to the ink about % 3-5 ratio to increase heat and adhesion resistance.

By adding % 0.5 - 1 ratio of **anti-scratch**, could give scratch and rub resistance to the ink and could be used for surface printing applications.

Anti-scratch added inks **cannot** be used for Lamination applications.

Colour range: WHITE and CMYK for this ink series

Other colours can be determined from the Pantone or according to customer sample.

Stir ink in a homogenous manner before use.

Do not mix any other series of inks.

Store inks in 20-25°C conditions to avoid discoloration and viscosity problems.

Sealed drums are under guarantee for 12 months after production date

since they are kept in a dry area at room temperature.

The ink is not intended to direct food contact.

The performance of the product and its suitability for the customers' purpose depend on the particular conditions of use and materials being printed

. Therefore, any statement provided in this document should not be construed as providing a guarantee of performance in a specific application area. ELNOUR CO. always recommends that customers carry out a full evaluation of performance and safety-in-use prior to using our products in commercial Applications.

*With the supply of any item of (**HD SERIES**), a statement of all tests shall be issued

Please contact with Elnour representative for full technical evaluation of your application or process.