



ecotech
POLYMERS

A Step Towards Greener World

ECOTECH PAD SERIES

TECHNICAL DATA SHEET WATER BASED RIGID SURFACE INKS

1. APPLICATION FIELDS:

Free radical curing water based printing ink series for Rigid Surfaces such as Toys, plastic such as ABS, Acrylics, Duroplastics, Glass & Ceramics, Metal, PET, PA, PC, PE, PP, PS, PVC (Rigid & Soft), Rubber, etc. Substrates may differ in their chemical structure or method of manufacture. A test for suitability must always be carried out before printing. Antistatic, mould release agents and slip additives may have negative effects on adhesion, and should be detected and removed prior to printing.

2. CHARACTERISTICS:

Ecotech water based PAD Series inks corresponds to the newest requirements of the printing market and is therefore silicone free and contains no solvents. All colors keep their viscosity also during storage over the guaranteed shelf life. Due to the medium viscosity level, the ink series has excellent printing properties. The inks of this series are constitutionally free from toxic elements and solvents. The raw materials used meet with the limits stipulated by the regulation. The products are distinguished by the high color strength and brilliance.

3. PROCESSING INSTRUCTIONS:

These Inks are 2 components and are to be mixed only during time of printing.
PART A i.e Resin and PART B i.e Hardener are to be mixed in right ratio for best result.
RESIN : HARDENER :: PART A : PART B :: 3 : 1 i.e 3 part of resin and 1 part of Hardener
Example for 1 kg of final product you have to mix 750 gms of Resin and 250 gms of hardener.
POT life at Room Temperature after mixing Hardener will be 8-10 hours.
We recommend to mix only that much resin and hardener which one can use in 8 – 10 hours

4. CURING CONDITIONS:

Suitable for medium pressure mercury lamps with 120 - 200 W/cm or Hot Air temperature up to 70 – 80 deg C.

5. CLEANING:

We recommend to use water for cleaning after completion or if not under use for long time.

6. RANGE OF COLOURS:

Refer Price List

7. ADDITIVES:

Thinner Mixture of IPA water in ratio of 30:70 can be used for faster drying and viscosity adjustment with at a maximum addition of 5 %.

Adhesion Promoter can be added to increase adhesion The Adhesion Promoter increases the reactivity and therefore the curing speed of the ink. A maximum addition of 3% is recommended.

Levelling Aid In order to further enhance the flow characteristics of the ink, an addition of approx. 0.5 – 2 % of the Levelling Aid can be used.

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