

ECO-IMPRES - 4064-D

TECHNICAL DATA SHEET

INTRODUCTION

ECO-IMPRES-4064 D is a styrene acrylic co-polymer resin solution for use in Water-based Inks and Overprint Varnishes. Is used mainly in water Based Flexo Inks and for manufacture of pigment dispersions used in Corrugated, Label & Tag Inks. Supports medium fast drying with negligible ammonical odor inks and coatings processing

AREAS OF APPLICATION

ECO-IMPRES-4064 D is a *styrene acrylic co-polymer resin of* a very high Tg, developed for use in Water-based Overprint Varnishes and Flexographic Inks. It is used as an excellent pigment grinding and gloss promoting medium for water-based inks. It also provides high heat resistance, resolubility and film release properties in overprint varnishes. One can further enhance the heat resistance properties of this emulsion by employing Zinc Ammonium Carbonate solution **ECO-IMPRES 4063 H**. **ECO-IMPRES-4064 D** additionally provides gloss and optical clarity. **ECO-IMPRES-4064 D** can also be employed as de-blocking modifier.

ECO-IMPRES-4064 D provides excellent transfer, very good hold-out on Paper and Paper Board, fast drying properties to inks and aqueous coatings.

ECO-IMPRES-4064 D is a hard polymer solution. Water Based Inks and

Over Printing Varnish formulations are tailored employing Glycol Ethers, Alcohols in combination with **ECO-IMPRES 4090, ECO-IMPRES 4077, ECO-IMPRES 4074, ECO-IMPRES 4074F, Wax emulsions and surfactants like substrate wetting, anti-foaming and surface slip promoting etc.**

By varying the concentration of **ECO-IMPRES-4064 D** in the formulation a technician can adept any formula to meet the individual press requirements, while ensuring fine line work and precise process color dot reproduction.

FEATURES & BENEFITS

- 30 % Resin Solution with Medium speed low odor evaporating Amine
- Very High Gloss and holdout on paper and paper board
- Medium Fast Drying
- Excellent Film Clarity
- A lot lower to negligible ammonical odor when compared to ECO-IMPRES-4061 A
- Mainly employed for Paper, Paper Board and Corrugated Board inks applications. Could be partially employed in aqueous coatings to slow down drying speed and improve press stability -
- Compatible with other Eco-Impres resin emulsions, Wax dispersions, Coalescing agents commonly employed in Water-based OPV's and ink systems - hence wide use of this resin solution in various formulations.
- High Heat Seal and Film Release properties
- Excellent pigment dispersion (grinding vehicle)
- Stabilized with Biocide

- Very Hard Polymer
- Mid-range molecular weight resin solution
- Good Alcohol Dilutability
- Versatility - in terms of adjustment of hardness (Minimum Film Forming Temp.), by combining with other Eco Impres emulsions, enables use in variety of end-use applications.
- Excellent re-solubility and holdout
- Outstanding water resistance or water shedding.
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TYPICAL PROPERTIES

Appearance	:	Clear Solution
Acid Value (on solids)	:	215-220 mg KOH/g
Density @ 25 °C	:	1 ± 0.05 gm/cc
Molecular Wt.	:	7500 to 9000
Total solids, %	:	30
pH	:	8.0 – 8.5
Brook Field Viscosity@30°C	:	300-500
Tg	:	120 °C
Freeze / Thaw stable	:	Yes [5 cycle]

PACKING

ECO-IMPRES-4064 D may be supplied in HDPE drums or IBC's. Bulk deliveries are possible in Tanker Loads.

SHELF LIFE

ECO-IMPRES 4064 D must be stored in original, un-opened and un-damaged containers in dry place at temperatures between 5 & 30 D C. Exposure to frost should be avoided.

SAFETY DATA

ECO-IMPRES-4064 D is not formulated to contain any hazardous or regulated materials such as lead, cadmium, mercury and chromium compounds. And raw materials **ECO-IMPRES-4064 D** and our

manufacturing process do not include any hazardous or regulated materials.

ECO-

IMPRES-4064 D is alkaline in nature and harmful if swallowed. Avoid contact with skin and use protective clothing, hand gloves, goggles etc, while handling this material. In case of contact or splash on eyes, wash with copious amount of water and consult a physician.

ECO-IMPRES-4064 D is a water-based system and non-flammable.

DISCLAIMER

The above details have been compiled based on our current knowledge and on the basis of thorough laboratory tests. As the methods and conditions of the use of the products at the printing stage and the further life-cycle thereof is beyond our control, the company accepts no responsibilities / liabilities whatsoever. We suggest that detailed suitability is carried out at the users end.

ANUVI CHEMICALS LIMITED (AN ISO 9001: 2015 COMPANY)

Sales office: 205/210/211, Narmada, Laxmi Industrial Premises,
Pokharan Road No.1, Vartak Nagar, Thane - 400 606,
Maharashtra. India.

Tel.:+91-22-25855379 / 25855714 **Website** www.anuvi.in



