

## ECO-IMPRES - 4061-A

### TECHNICAL DATA SHEET

#### INTRODUCTION

ECO-IMPRES-4061 A is a styrene acrylic co-polymer resin solution for use in Water-based Inks and Overprint Varnishes. Is used mainly in Over Printing Varnishes and for pigment dispersions used in Corrugated, Label & Tag Inks. Supports fast drying of inks and coatings with side effects like of slight ammonical odor and machine stability.

#### AREAS OF APPLICATION

ECO-IMPRES 4061 A 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 4061 A additionally provides gloss and optical clarity. ECO-IMPRES 4061 A can also be employed as de-blocking modifier.

ECO-IMPRES 4061 A provides excellent transfer, very good hold-out on Paper and Paper Board, fast drying properties to inks and aqueous coatings.

ECO-IMPRES 4061 A 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 4061 A in the formulation a technician is able to adept any formula to meet the individual press requirements, while ensuring fine line work and

precise process color dot reproduction.

**FEATURES & BENEFITS**

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- 30 % Resin Solution with Ammonia
- Very High Gloss and holdout on paper and paper board
- Fast Drying
- Excellent Film Clarity
- Mainly employed for Paper, Paper Board and Corrugated Board coatings and inks applications
- 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

**TYPICAL PROPERTIES**

- Appearance : Translucent liquid
- 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 4061 A may be supplied in HDPE drums or IBC's. Bulk deliveries are possible in Tanker Loads

#### SHELF LIFE

- ECO-IMPRES 4061 A 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 4061 A is not formulated to contain any hazardous or regulated materials such as lead, cadmium, mercury and chromium compounds. And raw materials for ECO-IMPRES 4061 A and our manufacturing process do not include any hazardous or regulated materials.

ECO-IMPRES 4061 A 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 4061 A is a water-based system and non-flammable.

#### DISCLAIMER

The above details have been compiled based on our current knowledge and based on 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 are carried out at the users end.

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