

## ECO-IMPRES – 4074F

### TECHNICAL DATA SHEET

#### INTRODUCTION

**ECO-IMPRES-4074F** is a styrene acrylic co-polymer emulsion for use in Water-based Inks and Overprint Varnishes.

#### AREAS OF APPLICATION

**ECO-IMPRES 4074 F** is a *film forming styrene acrylic co-polymer emulsion* of a moderate to low Tg, developed for use in Water-based Overprint Varnishes and Flexographic Inks. It is used as an excellent let down medium for water-based inks. It provides high gloss, transparency and transfer properties in overprint varnishes. One can further enhance the resistance properties of this emulsion by employing Zinc Ammonium Carbonate solution **ECO-IMPRES 4063 H**. **ECO-IMPRES 4074 F** additionally provides optical clarity.

**ECO-IMPRES 4074 F** provides excellent transfer, very good hold-out on Paper and Paper Board, fast drying, Newtonian Flow and low foaming properties.

**ECO-IMPRES 4074 F** can be used to formulate high performance inks & overprint varnishes or OPV's. By varying the concentration of **ECO-IMPRES 4074** 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.

**ECO-IMPRES 4074F** exhibits excellent rub-resistance

characteristics to the print.

**ECO-IMPRES 4074F** provides adhesion on various substrates, such as paper and paper board, coated paper, metalized substrates, Aluminum Foil and selected Polyolefins.

#### FEATURES & BENEFITS

- Very High Gloss and holdout on paper and paper board
- Moderate Drying Speed
- Excellent Film Clarity
- Mainly employed for Paper, Paper Board and Corrugated Board 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 emulsion in various formulations.
- High water resistance properties
- Stabilized with Biocides
- Soft Polymer
- EPO Free and free of glycols, glycol ethers, plasticizers and solvent
- Good Alcohol Dilutability
- Versatility - in terms of adjustment of hardness (Minimum Film Forming Temp.), by combining with other similar emulsions, enables use in variety of end use applications.
- Rheology Controlled (RC) Emulsion
- Outstanding stability in terms of pH, Viscosity, Rheological Disturbances and Freeze Thaw.

#### TYPICAL PROPERTIES

Appearance	:	Translucent liquid
Acid Value (on solids)	:	63 mg KOH/g
Density @ 25 °C	:	1 ± 0.05 gm/cc
Molecular Wt.	:	>200000
Total solids, %	:	44 + 1
pH	:	8.0 – 8.5
Brook Field Viscosity@30°C	:	300-400
Tg	:	8 °C
Freeze / Thaw stable	:	Yes [5 cycle]

**PACKING**

**ECO-IMPRES 4074 F** may be supplied in HDPE drums or IBC's. Bulk deliveries are possible in Tanker Loads.

**SHELF LIFE**

**ECO-IMPRES 4074 F** must be stored in original, unopened and undamaged containers in dry place at temperatures between 5 & 30 D C. Exposure to frost should be avoided.

**SAFETY DATA**

**ECO-IMPRES 4074 F** 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 4074 F** 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.

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