

## ECO-IMPRES - 4077

### TECHNICAL DATA SHEET

<b>INTRODUCTION</b>	ECO-IMPRES-4077 is a styrene acrylic co-polymer emulsion for use in Water-based Inks and Overprint Varnishes.
<b>AREAS OF APPLICATION</b>	<p>ECO-IMPRES-4077 is a film forming styrene acrylic co-polymer emulsion of a medium 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 medium heat resistance and film release properties in overprint varnishes. ECO-IMPRES-4077 additionally provides gloss and optical clarity.</p> <p>ECO-IMPRES-4077 provides excellent transfer, very good hold-out on Paper and Paper Board, fast drying and low foaming properties.</p> <p>ECO-IMPRES-4077 is a medium hard polymer. Generally lesser degree of coalescing agent or another softer emulsion is employed to improve the film formation and/or gloss improvement for the room temperature applications. For this purpose, Glycols, Glycol Ethers on their own or in combination with ECO-IMPRES 4074, ECO-IMPRES 4074F</p> <p>ECO-IMPRES-4077 can be used to formulate high performance inks &amp; overprint varnishes or OPVs. By varying the concentration of ECO-IMPRES-4077 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.</p>
<b>FEATURES &amp; BENEFITS</b>	<ul style="list-style-type: none"><li>• Very High Gloss and holdout on paper and paper board</li><li>• Fast Drying</li><li>• Excellent Film Clarity</li><li>• Mainly employed for Paper, Paper Board and Corrugated Board applications</li><li>• Compatible with other Eco-Impres resin emulsions, Wax dispersions,</li></ul>

Coalescing agents commonly employed in Water-based OPVs and ink systems - hence wide use of this emulsion in various formulations.

- Medium Heat Seal and Film Release properties
- Stabilized with Biocide
- Medium Hard Polymer
- EPO Free and free of glycols, glycol ethers, plasticizers and solvent
- Alcohol Dilutability - above 10%
- 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.
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<b>TYPICAL PROPERTIES</b>	Appearance	:	Translucent liquid
	Acid Value (on solids)	:	62 mg KOH/g
	Density @ 25 °C	:	1 ± 0.05 gm/cc
	Molecular Wt.	:	>200000
	Total solids, %	:	43 + 1
	pH	:	8.0 – 8.5
	Brook Field Viscosity@30°C	:	300-500
	Tg	:	35 °C
	Freeze / Thaw stable	:	Yes [5 cycle]

**PACKING** ECO-IMPRES 4077 may be supplied in HDPE drums or IBC's. Bulk deliveries are possible in Tanker Loads.

**SHELF LIFE** ECO-IMPRES 4077 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 4077 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 4077 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](http://www.anuvi.in)

