

# ECO-IMPRES 2077

## TECHNICAL DATA SHEET

<b>INTRODUCTION</b>	
	<p><b>ECO-IMPRES 2077</b> is a film forming styrene acrylic co-polymer emulsion of a medium Tg, developed for use in water-based overprint varnishes and flexographic Inks.</p>
<b>AREAS OF APPLICATION</b>	
	<p><b>ECO-IMPRES 2077</b> is used as an excellent let down medium for water-based inks. It provides medium heat resistance and film release properties in overprint varnishes. It additionally provides gloss and optical clarity.</p> <p><b>ECO-IMPRES 2077</b> provides excellent transfer, very good hold-out on paper and paper board, fast drying and low foaming properties.</p> <p><b>ECO-IMPRES 2077</b> 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.</p> <p><b>ECO-IMPRES 2077</b> can be used to formulate high performance inks &amp; overprint varnishes.</p>
<b>FEATURES &amp; BENEFITS</b>	
	<ul style="list-style-type: none"><li>• Very high gloss and hold-out 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 solution/ emulsions, wax dispersions, coalescing agents commonly employed in water-based OPVs and ink systems - hence wide use of this emulsion in various formulations.</li><li>• Medium heat seal and film release properties.</li><li>• Medium hard polymer solution stabilized with biocide.</li></ul>

- EPO free and free of glycols, glycol ethers, plasticizers and solvent.
- Alcohol dilutability /miscibility- 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.

<b>TYPICAL PROPERTIES</b>	Appearance	:	Translucent liquid
	Acid Value (on solids)	:	62 ± 3 mg KOH/g
	Density @ 25 °C	:	1 ± 0.05 gm/cc
	Molecular Wt.	:	>200000
	Total solids, %	:	47 ± 1
	pH	:	8.5 ± 1
	Brook Field Viscosity@30°C (Spindle/RPM : 3/60)	:	400 ± 100 cps
	Tg	:	37 °C
	Freeze / Thaw stable	:	Yes [5 cycle]

**PACKING** **ECO-IMPRES 2077** may be supplied in HDPE drums . Bulk deliveries are possible in tanker loads.

**SHELF LIFE** **ECO-IMPRES 2077** must be stored in original, un-opened and un-damaged containers in dry place at temperatures between 5 & 30°C. Exposure to frost should be avoided

**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 tests are carried out at the users end.

**Refer to our full TDS for more information**

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