



## Technical Bulletin # 14739

### *Thixotropic Clear*

UV Curable Screenprinting Inks

The Thixotropic Clear is a unique UV Ink which when applied will allow printers to accent and simulate a wet, water droplet look. Depending upon mesh count and emulsion build, the printer can achieve a variety of different size 'droplets' or three dimensional (3D) effects. Incorporating the Renegade GP Overprint Clear (Code # 13185) with the Thixotropic Clear will reduce tack and mesh marks to produce a clean deposit. The most common ratio of Thixotropic Clear to Overprint Clear is 60: 40 or 70: 30.

The Thixotropic Clear will also allow printers to produce a variety of color effects by adding small amounts of Renegade colors, metallic pigments, fluorescent, glitter, phosphorescent or pearlescent.

#### **APPLICATION:**

<b><i>Substrate Application:</i></b>	Suitable adhesion on polystyrene, pressure sensitive vinyl, coated paper and board stock. Product will also adhere to most litho inks depending on wax or starch content.
<b><i>Mesh:</i></b>	60-110 (24-43cm) plain weave mesh is recommended
<b><i>Emulsion:</i></b>	Capillary fat film, 90 Micron or better, Direct emulsion may also be used, if a high build is desired, extra coats should be applied to the squeegee side of the screen, or dried first then additional coats applied to the substrate side of the screen.
<b><i>Squeegee:</i></b>	70 or 80 durometer polyurethane blade
<b><i>Cure Parameters:</i></b>	1-200 watt per inch (80W/cm) mercury vapor lamp minimum with belt speed of 40 feet per minute (12-15m). Optimal lamp output is approximately 220 Mj, 680 watts/cm <sup>2</sup> .
<b><i>Coverage:</i></b>	500-800 square feet per gallon depending on mesh count

*Because of this ink's special chemistry, it is very important to pre-test prior to full-scale production to ensure all final requirements are met. Please contact our technical representatives at (800) 746-5567 with any questions.*

*Effective 05/11/2005*

**More than a shade superior**

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