



## 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 our WR 12023 Overprint Clear 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.

Thixotropic Clear will also allow printers to produce a variety of color effects by adding small amounts of WR colors, metallic pigments, fluorescents, glitter, phosphorescent and pearlescent.

#### **APPLICATION:**

|                               |   |
|-------------------------------|---|
| <b>Substrate Application:</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>Mesh:</b>                  | 60 - 110 (24 - 43cm) plain weave mesh is recommended  |
| <b>Emulsion:</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>Squeegee:</b>              | 70 or 80 durometer polyurethane blade   |
| <b>Cure Parameters:</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>Coverage:</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**

117 East 14<sup>th</sup> Avenue • N. Kansas City, MO 64116 • 800 746 5567 • fax: 816 221 4820