

## Technical Data Sheet #315

07/17/2009

<b>Wet Ink Tack</b>	Low
<b>After Flash Tack</b>	Low
<b>Printability</b>	Medium
<b>Surface Appearance</b>	Distressed, hard, brittle
<b>Opacity/Viscosity</b>	Medium / Medium
<b>Gel Point/Flash Time</b>	160°F (71°C)
<b>Fusion Temperature</b>	320°F (160°C) or higher depending on the garment
<b>Squeegee Hardness</b>	Medium
<b>Squeegee Blade</b>	Sharp
<b>Squeegee Angle</b>	45°
<b>Squeegee Speed</b>	Medium
<b>Emulsion</b>	All capillary films, direct or indirect liquid emulsions
<b>Mesh Count</b>	86 –230 mc in (32–90 mc cm)
<b>Extender</b>	N/A
<b>Thickener</b>	N/A
<b>Storage</b>	65°F to 95°F (18° to 35°C). Avoid direct sun.
<b>Cleanup</b>	Biodegradable screen wash
<b>MSDS</b>	#ES0246
<b>Substrate Type</b>	Cotton
<b>Substrate Color (s)</b>	Light, Medium & Dark Fabrics

## Claira™ NPT Non-Phthalate Specialty Inks

### ES0246 NPT Shatter Base

#### Description

**NPT Shatter Base** is designed to crack, yet provide great adhesion when printed onto textiles. It gives superior wash fastness when cured at 320°F (160°C) or higher depending on the garment. Create a cracked, distressed, design with the look and feel of ink that's falling off the garment.

#### Features

- Base for creating a brittle, cracked, or tattered look.
- Can be colored with C3 Color Boosters for a variety of design colors.
- Provides excellent printability with no viscosity modifications.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.

#### Application

Shatter Base allows addition of up to 20% C3 Color Boostes to enhance the color of the distressed design. Print through 86 –230 mc in (32–90 mc cm). Print with a sharp edge, medium durometer squeegee, with just enough pressure to clear the image area. Print NPT Shatter base and cure, then let cool properly. Tug the print to shatter it just before stacking or packaging. Shatter Base can be printed on top of Blister Base to make a Faux Leather look and feel. Technique cards are available for this technique.

#### Special Recommendations

- **Wash test garment to insure you have good adhesion. Too much print pressure can cause too little base to be on the surface for a distressed look.**

Claira Colors™, bases, modifiers and additives should be mixed in clean vessels using clean mixer blades and utensils. Any contamination from other ink sources or non approved additives could make Claira Colors™ test positive for the restricted phthalates.

- **Do not dry clean, bleach, or iron the printed image.**

Rutland Plastic Technologies does not knowingly add plasticizers containing the phthalates listed and outlined in California Bill 1108, CPSC HR-4040 and Oeko-tex Standard 100. The plasticizers identified may include di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), di-n-octyl phthalate (DnOP), (DIBP) Di-iso-butyl, and (DMP) Dimethylphthalate, including esters of ortho-phthalic acid and are not direct ingredients in the manufacture of Claira™ High Opacity Non-Phthalate Mixing System Inks and Claira™ Non-Phthalate Concentrate Mixing System Inks. Rutland Plastic Technologies does not test the final product for amounts of the aforementioned phthalate plasticizers and esters and encourages all users to conduct testing for their intended use.

ANY APPLICATION NOT REFERENCED IN THIS TECHNICAL DATA SHOULD BE PRE-TESTED OR CONSULTATION SOUGHT WITH RUTLAND'S APPLICATIONS LABORATORY PRIOR TO PRINTING. CALL 704-553-0046 EXT. 192 FOR MORE INFORMATION.