

# Excalibur

Technologically Superior Ink



## 551PF COLORPRO PANTONE MIXING SYSTEM (with Booster Colours)

Excalibur's 551 PF ColorPro is a high-opacity color mixing system that produces simulated Pantone® colours, and custom shades. It consists of 11 standard ready-for-use colors and five additional components called Boosters. Booster Colours are very intense shades of Yellow, Red, Blue and Green. When added in increments between 5%-40% they will increase the brightness and color accuracy of specific colours. Most generally the colors in the 551PF mixing formulas that need boosting are any colours that do not contain white. They generally can be found in the three colours located in the center of each page in the Pantone® "C" Formula Guide. All Pantone® colour formulas contained in the ColorPro Software that will benefit in accuracy with the addition of Booster Colours are presently being updated and added to the software as they are formulated.

### FEATURES AND BENEFITS

- High-speed formulations increase production and print well on both manual and automatic presses.
- Contains five new Booster Colours that add brilliance and intense color depth in mixed colours.
- Accurately reproduces with repeatability any Pantone® or custom colour.
- Because components are balanced and ready for use there is no worries about curing issues.
- ColorPro Software organizes your ink mixing by storing all Pantone® and standard Excalibur colours on any PC-based computer system. Customers may also store their custom created colors on this software.
- Completely phthalate-free and lead-free formulations that comply with all standards of Consumer Product Safety Improvement Act (CPSIA) banning phthalates and heavy metals in textile-printing inks.

### TECHNICAL INFORMATION

**Software:** ColorPro Software may be used to mix all Pantone® C colours and any special mixed colour. Go to [www.lancergroup.com](http://www.lancergroup.com) and download your free copy from the available link on the bottom of the home page. All Pantone® colour formulas contained in the ColorPro Software that will benefit in accuracy with the addition of Booster Colours are presently being updated and added to the software as they are formulated. Check at [www.lancergroup.com](http://www.lancergroup.com) for announcements of new formulas added to the ColorPro Mixing Software.

**Mixing:** For the most accurate color reproductions use the Excalibur ColorPro Software and carefully weigh out the formula with a digital gram scale that weighs accurately in 0.1 gram increments. Mix thoroughly and test color accuracy by printing a test print with the same size screen mesh and fabric color of the print run. Color accuracy should be evaluated by printing through same mesh size on like substrate after complete curing. Crock testing should be done no sooner than 72 hours after curing. After mixing ink color if finished mixture is not bright enough, add 5%-20% of 551PF Booster Color to achieve a brighter, more vivid color.

**Gel Temperature:** Ink will gel on surface at 240° F (116° C).

**Curing:** When correct proportions of pigments are mixed into the appropriate Excalibur Mixing Base the ink will cure when entire ink film reaches 320° F. (160° C).

**Mesh:** Mesh size will be determined after consideration of artwork and desired end result of decoration.

**Stencil:** Any emulsion or film that produces a stencil compatible with plastisol ink is recommended.

**Modification:** Do not add Curable Reducer 501PF until viscosity is evaluated after thoroughly stirring mixed ink. Although 501PF Curable Reducer is balanced and any amount added will not affect cure characteristics of ink too much Curable Reducer 501 can affect opacity, color strength and ink-film strength.

**Squeegee:** 70 durometer or 90/70/90 triple durometer blades are recommended.

**Clean-up:** Enviro Series 2000 Green or Enviro Series TR Blend.

**Colours:** Yellow G/S, Yellow R/S, Red Y/S, Red B/S, Fluorescent Magenta, Violet, Blue B/S, Blue R/S, Green, Black, White, Booster Yellow, Booster Red Y/S, Booster Red B/S, Booster Blue and Booster Green.

### CAUTION

Always test finished prints for color accuracy, crocking, curing, adhesion and desired look prior to beginning full production runs. Lancer Group International cannot guarantee the results or back claims that this mixed ink will test phthalate-free if any additive other than those manufactured by Lancer Group International is used to produce this ink. Test results by a third-party laboratory verifying all components used to produce this ink are phthalate-free and lead-free are available upon request.



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