

# Excalibur

Technologically Superior Ink



## PCPRO COLOR MIXING SYSTEM

Excalibur's PCPro is an extremely accurate color mixing system that produces simulated Pantone® colours, standard Excalibur colours and custom colours using pigment concentrates and bases. Simply bring up the colour formula in the ColorPro Software, carefully measure each component in the formula utilizing a digital gram scale, mix thoroughly and start printing, it's that easy! The most common bases used in the PCPro Color Mixing System are the 550PF and 504PF for wet-on-wet direct printing and the 1551PF to produce colours for athletic printing on 100% nylon and 100% polyester athletic uniforms. Also available are two transfer bases as well as several bases that enable you to simulate colors in special effects designs.

## FEATURES AND BENEFITS

- Mixes any amount which reduces inventory particularly in seldom used colors.
- Accurate reproduces Pantone® colours in corporate logos.
- Pigment Concentrates are highly concentrated saving money because formulas use less pigment.
- Pigment concentrates can be used in any Excalibur base so you can produce special-effect ink colours.
- Organizes your ink mixing by storing all Pantone® and standard Excalibur colours on ColorPro Software. Customers may also store their custom created colors on this software.
- Completely phthalate-free and lead-free formulation complies 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 standard Excalibur colours, all Pantone® C colours and any special mix 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.

**Mixing:** For most accurate color reproduction use the Excalibur ColorPro Software and carefully weigh out the formula with a digital gram scale that weighs accurately in .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. Do not overload Excalibur mixing bases with pigment. PCPro pigments are highly concentrated. Recommended pigment loads in Excalibur mixing base are 15% by weight and at no time should ever exceed 20% by weight. Over-pigmentation of base could result in crocking or curing problems. 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.

**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° degrees Fahrenheit. See below under **Caution** about overloading base with pigment.

**Mesh:** Mesh size will be determined after pigment concentrates are mixed into appropriate Excalibur Mixing Base and after consideration of artwork and desired end result of decoration.

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

**Modification:** Do not add Curable Reducer 501 until viscosity is evaluated after mixing pigments. Although 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 if any residual plastisol ink is not removed from the screen.

## 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 base, pigment or 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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