



# ELT Digital Black

Underbase black ink for ending dye migration.

## Product Description

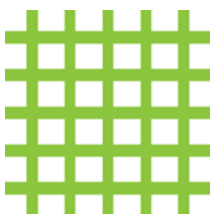
Perhaps the most important innovation ever by One Stroke Inks is the ELT Digital Black Underbase. This is not just an ink formulated to end dye migration. This ink is formulated to end dye migration with both high and low temperature plastisol screen printing inks. Lower flash and cure temperatures is preferred as this leads to a number of benefits not realized by the competition:

- No fabric shrinking.
- Stop ghosting.
- End dye migration.
- Hot stacking is safe.
- Cool down stations are unnecessary.
- Significantly lower energy cost.
- Longer lasting platen adhesive.

In addition to preventing the problems listed above, ELT Digital Black along with ELT Series inks have many benefits not commonly found in plastisol inks:

- Excellent replacement for silicone ink.
- Universal ink for printing all fabrics (cotton, polyester, nylon, polypropylene).
- Stretches with Lycra® and spandex blends.
- Very smooth texture for fantastic resolution and easy multi-color printing.
- Ultra-soft feel.
- Very light ink viscosity.

## Quick Product Specifications



**Mesh Range:**  
86 - 110 count



**Flash Curing:**  
3 to 4 seconds



**Ink Curing:**  
270°F to 320°F



**Clean Up:**  
IR-4 & PW-4

## Printing Tips For Success

ELT Digital Black Underbase will be a successful partner with our low temperature inks as well as some of our regular temperature inks. Only the successful combinations of our premium plastisol inks and the ELT Digital Black Underbase are listed below. Any other combination will likely cause dye migration on 100% polyester, sublimated polyester, or polyester/stretch blends.

### Low Temperature Combinations:

ELT Digital Black Underbase was formulated for use with the ELT Series. Smart LC Series will also print and cure successfully on top of the ELT Digital Black Underbase at low temperatures. Cure these ink combinations between 270°F and 280°F for the best possible results. A higher temperature of 300°F may be necessary when many layers of ink are printed.

### Regular Temperature Combinations:

You can combine the ELT Digital Black Underbase with our premium polyester or universal screen printing inks to stop dye migration when screen printing on digital camo or solid color polyester material. Be sure to cure these ink combinations between 320°F and 330°F.

## Printing Techniques

Ideas for screen printing the ELT Digital Black Underbase are listed below. These suggestions have been thoroughly tested on numerous 100% polyester, and sublimated polyester fabrics. Different versions of digital camo will be the most difficult fabric you encounter. ELT Digital Black Underbase will solve dye migration and contrast problems if you follow these instructions.

### 100% Polyester:

Screen print the ELT Digital Black Underbase with 110 monofilament mesh count. One print is usually all you need before flashing and printing the additional colors on top. Depending on the top color(s) you plan on printing, you may want to print them once or twice. Please note the earlier list of acceptable ink combinations as the ELT Digital Black Underbase is not a barrier without a proper overprint ink.

### Sublimated Polyester:

Numerous printing techniques may be sufficient in preventing dye migration on items such as digital camo or striped uniforms. Print, flash, and print the ELT Digital Black Underbase for maximum dye migration protection. Additionally, print, flash, and print the overprint color on top of the underbase for the best result imaginable. Keep in mind that the print will still have a very soft and stretchable feel as the ELT Series inks are not your average plastisol ink.

You may be able to print-flash-print the ELT Digital Black Underbase and simply print one layer of ink on top with very good results. Similarly, you may be able to print the ELT Digital Black Underbase once with a print-flash-print of the overprint color. Testing these fabrics is critical as every different pattern and color can react very differently with the inks.

### Important Notes

This tech sheet includes much more specific information than most of our plastisol inks. This is due to our desire to fully educate our customers leading to better prints and higher sales. With most fabrics, the ELT Digital Black Underbase is best when cured between 270°F and 280°F (300°F when many ink layers are printed). When pushing the limits of ELT Digital Black Underbase with a lower cure temperature, always test your dryer. Utilize our Thermolabels to test at these any temperatures.

Most screen printers will have significant ink stock on their shelves when they first make the switch to ELT Series. For fabrics such as cotton, poly/cotton, and most nylon, ELT Series inks can be printed with our other ink series. Simply cure the prints at 320°F to be sure all of the inks involved are fully cured. 100% polyester will be best using only the ELT Series inks as the low temperature is very important to the success of these prints.

Always perform a pretest print and test cure conditions on the fabric to be printed to establish the best results. Stir inks vigorously before each use. Viscosity may need adjusting for best results. If there is ever a question about a print job, call us at 800-942-4447. We are always happy to help!

