

## Why Supercover Ink Is Different



Supercover fabric inks contains up to four times more pigment than a standard ink, making the pigmentation and consistency much thicker, requiring a different printing method to ensure all the pigment passes through the screen and does not remain in the mesh after printing.

The thicker pigmentation of supercover fabric ink ensures a solid coverage onto the fabric below and eliminates the need to place a white background or base layer under your colours.

The thicker consistency of supercover creates a common problem for beginners in that although the first print looks great, each print afterwards starts to get worse (lighter & patchier) as the ink starts blocking the design and drying in the screen - all easily fixed by adjusting the printing technique ever so slightly.

**Opaque  
Fabric Ink**

**Off  
Contact**

- **Print 'off contact' by elevating the screen 5-7mm.**
- **Keep the squeegee angle upright to print with the sharp edge of the blade**
- **Use slightly more pressure on the squeegee**
- **Keep the design area clear of ink after each print**
- **Increase the number of passes with the squeegee**
- **Always use Table Adhesive under your item to hold it flat**
- **Use Fabric Ink Retarder to increase the drying time, 'wetness' and workability**

## Basic Technique

### Off contact/ snap/ elevated



This process is also called 'snap' or 'elevated' printing

*Information sheet #08 details the process of setting up a screen for off contacting printing in detail.*

The process involves raising the height of your screen above the item you are printing. The raising of the screen ensures the mesh is not in contact with the item before or after printing and 'snaps' back after the squeegee has passed over the design.

When the screen is not raised you will actually pull a layer of ink back off the item when you lift your screen - this is why the item may appear patchy (as whilst your print was perfect, the wetness of the ink and heavy pigment load sticks to the strands of the mesh).

Raising the screen and 'snapping' back to a height above the item, the screen does not remain in contact with the item, so when it is lifted after printing the mesh is already away from the item and does not stick to the design (leaving all the ink on your item).

A screen printing jig, or jig hinges, makes 'off contact' printing faster, easiest and most importantly accurate as you simply insert a few plastic height adjusters (product code: S-9112) under the frame. The arm of the jig will hold the screen in perfect registration for each print.

### Keep the squeegee upright



You will receive a sharper and more detailed image printing 2-3 times rather than 1 heavy print. The denser pigments in the ink can not all pass through the mesh in 1 print so by performing 2 prints you put down a set of 2 sharper layers that stack on top each other and to give a sharp solid print. You should hear the rippling noise of the blade passing over the mesh strands as you print.

#### 1. Keep the angle of the squeegee upright - angle between 60-70 degrees

- Lowering the angle does not put more ink through the screen
- Angles too low will force ink through the screen and bleeding/ smudging will occur

#### 2. Do not press too hard - less pressure is used with the squeegee when printing

- The blade on the squeegee will flex slightly, however should not bend or bounce whilst printing
- You don't need to push the squeegee through the screen - the ink will naturally be drawn through onto the material below - guide the squeegee onto the item below

### Use slightly more pressure

As the screen must travel downwards to touch the item, you will find yourself naturally using more pressure to print, use caution not to press too hard and flood the screen with ink.

This point is used in conjunction with both the previous point of squeegee angle and the next point of keeping the screen clean of ink after printing - it is adjusted to suite your printing technique, the elevated height of the frame and consistency of the ink you are using.



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**Keep the design free of ink**

The elevation of the screen, higher angle of the squeegee and increase in pressure on the squeegee blade should ensure that your design in the screen is clean after printing.

- Keeping the design area of the screen clean after printing is a sign of a good print.

If the design area is not clear then not all the ink has passed onto your design and it's going to look patchy or faint. Ink left in the screen will also dry making subsequent prints worse - ultimately you'll have to stop and clean the screen down in water.

**Look at your screen, not the print**

After printing you will naturally look at the print, however more importantly look at your screen after printing, as it's the health of the screen that is more important to your overall printing.

- A clean and healthy screen will continue to give you sharp quality prints.

You will notice problems with your screen before anything happens to the prints on your garments, so acting before things happen will save you troubles, miss prints and valuable time.

**1. Part of the design with ink still in it**

- Remove with a clearing print after your passes. If this does not clear the ink you may be required to perform your clearing print onto paper not onto the item after printing [the paper is more absorbent than the 'wet' fabric you have just printed].
- If ink continues to dry in the screen you must then either adjust the ink (by adding Fabric Ink Retarder) or the printing technique by flood coating the design. Retarder is recommended as the first option as flood coating involves pushing the ink back across the design area after printing to cover the area with wet ink. You are required to have more ink on the screen for this process and works best with thinner/ runny inks (not normally required for opaque Fabric Inks).

**2. Excess ink building around the edges of the screen**

- This is a normal part of printing, however you should return the ink to the container and stir to 'work the ink back in'. If you leave it too long it will start to dry and may then thicken your ink supply.
- If ink continues to build regularly then you may be using too much ink or the pressure of the squeegee is too great as the ink is being forced off the squeegee to the sides.

**Increase the number of passes**

Most prints using supercover inks will require two or three passes of the squeegee for complete coverage of ink onto the garment below.

Remember that 2-3 passes using a consistent and even pressure - not heavy - will produce a clear, solid image. One heavy pass will flood the screen with ink, blur the design and give you no greater coverage at all.

Items can only absorb a set amount of ink in one pass, so multiple passes with less ink will produce a clearer result, as you layer and blend the ink instead of forcing it onto the material.

High synthetic materials such as polyester and lycra may require drying between passes.

- Print the first layer then lift the screen and touch dry using a hair drier or heat gun (your not setting the ink just touch drying the ink), then lower and print again. Note this process only recommended when using a screen printing jig.

**Use Table Adhesive**

A commonly forgotten aspect of printing supercover inks is the very important issue of holding your item still/ flat when printing - this is achieved using Table Adhesive under your item when printing.

If you do not use Table Adhesive, although you have raised the height of your screen, the item will lift up and stick to the back of the screen eliminating all the other work you have done.

Table adhesive is an inexpensive and critical part of the process that should not be forgotten. Applied to the board under your print area to hold your item still whilst printing - avoiding movement, smudges, misprints, blurring, etc.

- Apply 1 drop every 7-10cm and spread evenly over your printing board and allow to dry.

