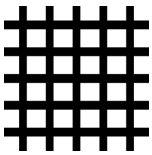
HYBRID FF SERIES

TECHNICAL DATA SHEET

SHORT DESCRIPTION:

Hybrid FF Series is the perfect upgrade to the original Hybrid Series as the faster flash time will help prevent numerous heat-related fabric problems which are so common. Hybrid FF Series is very opaque, yet has a very soft feel. Dye migration on poly/cotton is no problem!

QUICK SPECIFICATIONS:



MESH COUNT
86 to 158

This is simply a recommendation based on printing opaque prints on dark fabric. Hybrid FF Series will easily print through finer mesh counts when necessary for detailed art work. This is a great plastisol ink for printing simulated process as well.

FLASH CURE
5/5: Exceptional

The rating of EXCEPTIONAL implies a flash cure speed of approximately half that of any standard plastisol ink. Due to the great number of variables involved, we cannot specify a specific flash time or temperature.

INK CURING
320°F

Washing and drying your prints to check durability is the ultimate test of ink curing. However, the use of Thermolabels is the most sensible method of testing for your day-to-day operations. This will help you prevent cracking, peeling, and washout.

SQUEEGEES
70 Durometer

Squeegees are one of many variables controlling your ink deposit. Softer squeegees are capable of printing thicker while hard squeegees allow for better print resolution. 60 durometer is soft. 70 durometer is medium. 80 durometer is hard.

CLEAN UP
PW-4 or IR-26

Many cleaning products will remove plastisol ink. We recommend Saatichem PW-4 for cleaning on-press. The IR-26 is ideal when cleaning in a washout booth. Cleaning the ink out of the screen immediately after printing is always recommended.

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FAST FLASH BENEFITS:

Faster flashing inks help prevent numerous fabric/printing problems which have become such a nuisance. These problems include:

Dye Migration
Excessive flash cure times and temperatures may cause “bleeding” or dye migration of the fabric color into your ink. Fast flash inks allow you to heat quickly and get the print away from the heat, protecting the fabric and the ink.

Shrinking
If your fabric shrinks under the heat of a flash unit, the other colors will no longer register properly. Flash curing faster or at a lower temperature is your only effective option.

Scorching/Melting
Fabrics will burn, leaving dark or even charred burn marks on your apparel. This can happen while flash curing or fully curing in the conveyor dryer. Excessive heat is the culprit. However, items such as polypropylene and nylon may scorch at significantly lower temperatures when compared to cotton and poly/cotton.

Color-Changing
Fluorescent cotton and poly/cotton fabrics have a tendency of darkening when over-heated. This is not always easy to see as the color change is often slight. It most commonly occurs on safety yellow, fluorescent green, and fluorescent orange tees. If you can flash cure quickly or at a significantly lower temperature, the fabric can be saved.

HYBRID FF SERIES BENEFITS

- Flash cures in an instant.
- Holds down the fabric “fuzz” better than any other ink formula.
- Extremely creamy viscosity. Manual screen printer’s dream.
- Opaque white and colors. No white underbase needed on dark fabric.
- Print-flash-print through 158 count screens for amazing coverage.
- Soft, stretchy print. Great for ribbed cotton and cotton/lycra blends.
- Smooth surface white for great process and simulated process underbases.

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IDEAL CURING GUIDELINES:

Curing Hybrid FF Series at the temperatures listed below (test with a Thermolabel) will give you the best possible print without damaging the fabric. Curing is a time and temperature process. A lower temperature with a slower belt speed is always the best method.

100% Cotton	Poly/Cotton	Polyester	Nylon/Stretch	100% Nylon	Polypropylene	Rayon
320°F	320°F	X	X	X	X	X

TIPS AND TRICKS:

- Hybrid FF Series flash cures extremely quickly. If you over-flash, the print may not be as flat or smooth as advertised. If you see a rough texture, lower the flash cure temperature or speed up the flash time.
- If you are a manual printer with multiple printing stations on your press, you may think that flash time does not affect you. The fabric is under the flash cure unit for the same amount of time regardless of how fast the ink flash dries. Consider raising your flash unit or turning down the heat. The lower temperature will protect your fabric and the ink will be dry.
- Sometimes more ink will have a softer feel than less ink. This does sound backwards but more ink will hold the “fuzz” down better, preventing a rough texture.

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!