SILEXTREME Inks are highly suitable to print on performance wear and smooth polyester fabrics to provide a wide range of benefits such as high elasticity, soft feel and long term durability. The SILEXTREME SXT Ink system is activated by the addition of our proprietary SXT Catalyst and is cured at a temperature of at least 270°F (132°C) to provide superior performance.

By using our standard portfolio of preset SXT Toner colors or our color mixing system, our customers can create the hottest team colors or any desired Pantone shade.
These inks have been innovatively designed to bring out the strengths and benefits of silicone chemistry to your existing textile screen printing operation.

**PROCESS**

Ink SXT Toners with SXT Matte Base and SXT Catalyst, mix thoroughly and you are ready to print. Mix the catalyst with RFU White at 4 to 5% percent by weight of catalyst. Use 4% for longer opening time, 5% for the shortest flash. This SXT Catalyst is to be used with Toners at 3.5% depending upon desired hardness and brightness of final cured product. SXT catalysts are heat resistant and have a long life after use.

**FLASH (TIME AND TEMPERATURE)**

Recommended flash time is 6-10 seconds or less on hot pallets that are at least above 120°F.

**SQUEEGEE**

Recommended squeegee is a medium durometer of 70 hardness.

**CONTAMINANTS TO AVOID**

Any contamination by materials such as tin compounds, sulfur and amines must be thoroughly washed, as these will retard the curing process and negatively affect the adhesion and durability of the ink. Typically dark colored garments such as black or blue may contain sulfur dyes that can inhibit curing. Also, avoid any potential of cross-contamination with PVC containing products.

Screen printing pallets must be free of any non-silicone ink residue. Even small amounts of PVC plastic ink deposit on the pallet can release plasticizer under heat that will inhibit the curing of the silicone ink.

**RECOMMENDED BEST PRACTICES**

**UNIQUE FEATURES**

Provides excellent soft drape, soft to touch hand feel, and is highly suitable for soft fabrics.

Lower cure temperature leads to minimal damage on sensitive fabrics and very little impact on dye migration and is ideal for polyester performance fabrics, sweatshirts, swimwear and sublimated clothing.

Has high degree of stretch and elasticity — can expand with the fabric when stretched and is ideal for highly elastic materials such as Spandex, Polyester and Blends.

Highly durable — can withstand heavy washes and has long term durability.

More heat resistant — can withstand higher temperatures once stretched and is ideal for highly elastic materials such as Spandex, Polyester and Blends.

**APPLICATIONS**

Prior to printing, one must add up to 5% SXT CATALYST to any mixed color (only catalyze enough amount for up to 1-2 days of print production as addition of the catalyst creates a pot life). Make sure to mix the catalyst thoroughly. For maximum opacity and brilliance of the colors, use print - flash - print method. Catalysted inks are best stored under room temperature or less.

**STORAGE CONDITIONS**

Keep lid on container to prevent contamination and store at 60°F to 75°F (16°C to 25°C). Once the toner is mixed with base, it must be used within 40 days. Once the catalyst is added the ink pot life is 12 hours. Under hot weather conditions in the shop floor, it is recommended to add up to 3% retarder and increase the catalyst amount to 0.5%, to ensure that the ink will still be sufficient pot life, although the flash time may need to be extended.

**LIMITATIONS**

SXT inks have a longer flash time than plastisol. Normally it is 10-30 seconds depending on the amount of catalyst and or retarder added.

While SXT inks are perfect for replica jerseys and performance garments, they may not be suitable for “on field” jerseys since silicone inks are softer, and the rubbery surface can be a little stiff during rigorous physical contact during the sport.

**SILEXTREME PRODUCT LINE**

**GROUP**

SXT Toners

**DESCRIPTION**

Customizable colorjet inks that are mixed with SXT Matt Mixing Base. After mixing in the specific ratio, the resulting silicone color will adhere like any other ink and last longer. Suitable for short run applications.

**USAGE**

Primarily ideal for mixing custom colors, ready to use ink when wanted.

**SXT Matt Mixing Base**

Concentrated liquid to use as a base for SXT Toners.

**SXT Specialty Toners**

Various metallic and special effect toners to enhance inkjet color in gloss or matte finishes.

**SXT Clear Base - Matt and Gloss**

One color base ink for use with SXT Pigment, SXT Specialty Toners, or SXT Matt Mixing Base. Mixed with an addition of SXT Catalyst to produce a matte or satin finish.

**SXT Barrier Black - Matt and Gloss**

Premixed black silicone ink that is ready to use with addition of SXT Catalyst. Mixed with either Matt or Gloss base to produce a barrier layer over sublimated fabrics to inhibit the migration of sulfur dyes.

**SXT RFU Black**

Premixed black silicone ink that is ready to use with addition of SXT Catalyst. Mixed with either Matt or Gloss base to produce a barrier layer over sublimated fabrics to inhibit the migration of sulfur dyes.

**SXT RFU Whites - Matt, Satin, White, Satin White**

One color ink that is used for use with addition of SXT Catalyst. Mixed with either Matt or Gloss base to produce a barrier layer over sublimated fabrics to inhibit the migration of sulfur dyes.

**SXT Pigment Concentration**

Catalyzed pigment loaded liquid for use with SXT Matt Mixing Base systems as a new addition to the SXT Line. Uniformly formulated to be mixed with SXT Toners or mixing system pigments as the main binder for the SXT ink system.

**SXT max**

SXT max is the new high performance base for all SXT Toners. Mixed with a pigment or a plastisol to create a new ink system.

**SXT Barrier Black**

Silicone polymer loaded pigment for use with standard plastisol systems as the new barrier for the SXT ink system.

**SXT Specialty Toners**

Various metallic and special effect toners to enhance inkjet color in gloss or matte finishes.

**SXT Matt Mixing Base**

Concentrated liquid to use as a base for SXT Toners.

**SXT Clear Base - Matt and Gloss**

One color base ink for use with SXT Pigment, SXT Specialty Toners, or SXT Matt Mixing Base. Mixed with an addition of SXT Catalyst to produce a matte or satin finish.

**SXT Barrier Black - Matt and Gloss**

Premixed black silicone ink that is ready to use with addition of SXT Catalyst. Mixed with either Matt or Gloss base to produce a barrier layer over sublimated fabrics to inhibit the migration of sulfur dyes.

**SXT RFU Black**

Premixed black silicone ink that is ready to use with addition of SXT Catalyst. Mixed with either Matt or Gloss base to produce a barrier layer over sublimated fabrics to inhibit the migration of sulfur dyes.

**SXT RFU Whites - Matt, Satin, White, Satin White**

One color ink that is used for use with addition of SXT Catalyst. Mixed with either Matt or Gloss base to produce a barrier layer over sublimated fabrics to inhibit the migration of sulfur dyes.