

Technical Data Sheet

SILKFLEX FLOCK FIXER SF-103

INTRODUCTION:

SILKFLEX FLOCK FIXER SF-103 is a fixer/crosslinker which can be added into Silkflex textile inks and printing paste to improve flock fixing wash and colour fastness. Unlike regular fixers, Silkflex Flock Fixer SF-103 is free of formaldehyde, alkyl phenol ethoxylates (APEO), azo dyes, heavy metals, aromatic solvents and polyvinyl chloride (PVC). Silkflex Flock Fixer SF-103 when added into Silkflex inks will effect crosslinking and provide improved adhesion onto fabric and at the same time enhance the water/chemical resistance of the ink. Silkflex Flock Fixer SF-103 is also very effective for adhesion promotion on difficult fabrics like pure polyester and nylon.

CHARACTERISTICS:

1. Excellent hiding ability (Pigment shade will not be affected by the color of the base fabrics).
2. Short printing time and formulated to be suitable.
3. Excellent rubbing fastness, washing Fastness & water resistance
4. Excellent soft to hand-touch.
5. Excellent brightness results.

CHEMICAL PROPERTIES:

APPEARANCE : Low viscosity transparent liquid

PH VALUE : 7±1

IONIC NATURE : Non-Ionic

RECIPES:

WHITE PRINT ON ANY DEEP GROUND:

SILKFLEX HIGH DENSITY RUBBER WHITE WHD-302	= 86%
SILKFLEX HIGH DENSITY RUBBER CLEAR CHD-301	= 10%
SILKFLEX ECO OXAL FIXER SU-400E	= 3%
<u>SILKFLEX FLOCK FIXER SF-103</u>	<u>= 1%</u>
PASTE FOR PRINTING	= 100%

WHITE PRINT ON ANY LIGHT GROUND:

SILKFLEX HIGH DENSITY RUBBER WHITE WHD-302	= 76%
SILKFLEX HIGH DENSITY RUBBER CLEAR CHD-301	= 20%
SILKFLEX ECO OXAL FIXER SU-400E	= 3%
<u>SILKFLEX FLOCK FIXER SF-103</u>	<u>= 1%</u>
PASTE FOR PRINTING	= 100%

COLOR PRINT ON ANY LIGHT GROUND:

SILKFLEX HIGH DENSITY RUBBER WHITE WHD-302	= 31%
SILKFLEX HIGH DENSITY RUBBER CLEAR CHD-301	= 65%
SILKFLEX ECO OXAL FIXER SU-400E	= 3%
SILKFLEX FLOCK FIXER SF-103	= 1%
PASTE FOR PRINTING	= 100%

COLOR PRINT ON ANY DEEP GROUND:

SILKFLEX HIGH DENSITY RUBBER WHITE WHD-302	= 51%
SILKFLEX HIGH DENSITY RUBBER CLEAR CHD-301	= 45%
SILKFLEX ECO OXAL FIXER SU-400E	= 3%
SILKFLEX FLOCK FIXER SF-103	= 1%
PASTE FOR PRINTING	= 100%

APPLICATIONS:

1. Please each printing has to get dried or cured, then proceed the next printing.
2. For fast drying after screen printing, curing in oven under 150°C~160°C, 2~3 mins.
3. The print can be dried at ambient temperature but allow for seven days before conducting wash test. Alternatively, these prints can be hot pressed at 120°C for 10 sec to help speed up the curing process.

PRINTING PARAMETER:

Fabric Type	: 100% Cotton
Mesh Count	: 86-230t/in (34-90 t/cm)
Mesh Tension	: 25-35 n/cm ²
Squeegee	: 60-70 Durometer (Sharp/Square edge)
Curing	: 305°-320°F (150°-160°C) for 2 mint
Others Additives	: Fixer 3% by weight max
Storage	: 65°-90°F (18°-32°C), Avoid Direct Sun
Clean Up	: Water
Health & Safety	: As per MSDS

COLOR LOADING:

For Black Color	: 100% Clear
For Dark Colors	: 10% White & 90% Clear
For Medium Colors	: 20-30% White with 70-80% Clear
For Light Colors	: 50% White & 50% Clear
For Pastel Colors	: 90-100% White with 0-10% Clear

NOTE:

1. Well curing is very important to every printing .in case, any press and heat have to be done, make it on the next day at 100~140°C, 3~5 seconds by press& heat machine.

CERTIFICATION:

Free from **APEO** as per the requirements of Directive 2003/53/EC of the European Parliament and of the council 18th June 2003 amending for the 26th time Council Directive 76/769/EEC. Also free from **Cationic Surfactants**.

It is complied with the requirements of Directive 2002/61/EC of the European Parliament and of the council 19th July 2002 amending for the 19th time Council Directive 76/769/EEC regarding the restriction on the marketing & use of certain dangerous substances and preparation (**AZO** colorants)

The product does not contain any AZO aryl derivatives and one or more **AZO** groups (24 contains) banned amines mentioned in the German Consumer Goods Ordinance

The amount of heavy metal impurities (**Chromium, Mercury, Barium, Selenium, Antimony, Cadmium, Arsenic, Lead** etc.) present in all products are below the ETAD (Ecological and Toxicological Association of Dyes and Organic Pigments Manufacturers) recommended limit value guideline.

It complies with the **Oeko-Tex Standard 100**, which regard to the limit value of substance which are

Free of **carcinogenic dyestuffs, Flame Retardants, Perfluoro Compounds**

Free of **Formaldehyde, Chloroparaffins, Chromium VI (Cr⁶⁺)**

Free of harmful to health substance such as **pesticides, allergy-inducing dyestuff or tin-organic compounds** etc

The product satisfies the requirements that are defined in Article 57 of regulation EC no 1907/2006 (The **REACH** Regulation). Also there is no substance from the **SVHC** "candidate list"

Compliant with CPSIA 2008 (Consumer Product Safety Improvement Act) Section 101, Lead Content in Substrates (<300 ppm lead); 16 CFR, Part 1303, Lead in Paint (<90 ppm lead); and CPSIA 2008, Section 108, Phthalates (<.1% **DEHP, DBP, BBP, DINP, DIDP, DNOP**).

It also free from **Chlorinated Aromatic Hydrocarbon, Phenols (PCP, TeCP, OPP) and Others restricted Organic Compound (DBT, DOT, TBT, TOT, TCyHT, TPT, TPHT), PCB, PCT, PVC & Triclosan**