

# Technical Data Sheet

## SILKFLEX BINDER SBB-510

### INTRODUCTION:

**SILKFLEX BINDER SBB-510** is a highly effective binder with elastic properties for silkscreen printing on cotton and polyesterbased fabric. Unlike conventional binder, Silkflex Binder SBB-510 is formulated to be self-crosslinking and tack free. Hence, it provides excellent anti-block properties and will not adhere to the surface of other inks (Premium rubber inks or Elastic rubber series) even after prolonged contact with latter provided that the proper curing/drying procedure is followed. The Silkflex Binder SBB-510 is environment friendly and is completely free of the following chemicals : formaldehyde, phthalate, polyvinyl chloride (PVC), azo, lead, chromium, mercury, nickel, tin, chromium and alkyl phenol ethoxylate (APEO). Silkflex Binder SBB-510 can be used as supplied or mixed in any ratio with rubber inks. The Silkflex Binder SBB-510 provides prints with smooth surface, excellent soft feel and exceptional wash resistance.

### CHEMICAL PROPERTIES:

APPEARANCE : High viscosity off-white paste

PH VALUE : 7±1

IONIC NATURE : Anionic

### RECEIPE:

WATER	: 65%
SILKFLEX BINDER SBB-510	: 25%
THICKENING AGENT	: 6%
SILKFLEX ECO OXAL FIXER SU-400E	: 3%
SILKFLEX FLOCK FIXER SF-103	: 1%
TOTAL PASTE FOR PRINTING	=100%

Here,

PIGMENT COLOUR : X%, x depends on Fabric /print color.

**APPLICATIONS PROCEDURE:**

Silkflex Binder SBB-510 can be used directly or mixed with inks; Premium rubber inks, Elastic rubber inks. A ratio of 30-60% of the Silkflex Binder SBB-510 with suitable inks is normally sufficient. Allow prints to air-dry completely (~6 hours) before heat curing. Provide a temperature of at least 150°C in order to ensure effective reaction of the puff process. Heat curing can be carried out by the heat press method or by using a conventional oven.

**PRINTING PARAMETER:**

Fabric Type	: 100% Cotton
Mesh Count	: 86-230t/in (34-90 t/cm)
Mesh Tension	: 25-35 n/cm <sup>2</sup>
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

**CERTIFICATION:**

Free from **APEO** as per the requirements of Directive 2003/53/EC of the European Parliament and of the council 18<sup>th</sup> June 2003 amending for the 26<sup>th</sup> 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 (Cr<sup>6+</sup>)**

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 57of 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**