

Technical Data Sheet

SILKFLEX PIGMENT PASTE SPP-001

INTRODUCTION:

Silkflex Pigment Paste SPP-001 is a self crosslinking full acrylic emulsion polymer that is used for the textile silkscreen printing. The Silkflex Pigment Paste SPP-001 is extremely elastic, transparent and durable, and provides prints with excellent color development, flexibility and sheen. It is free of organic solvents, heavy metals and polyvinyl chloride (P.V.C.). The Silkflex Aquasol Pigment Paste SPP-001 is compatible with conventional melamine-formaldehyde fixer and other formaldehyde free fixers. The Silkflex Pigment Paste SPP-001 is highly concentrated and can be further diluted with deionized water up to 200% by weight or volume.

CHEMICAL PROPERTIES:

APPEARANCE : White Paste

PH VALUE : 7±1

IONIC NATURE : Anionic

APPLICATION PROCEDURE:

Silkflex Pigment Paste SPP-001 can be diluted with water and then thickened with acrylic or other thickeners to ensure optimum printing properties. A typical formulation is provided below.

Silkflex Pigment Paste SPP-001	:32.33%
Water	:64.67 %
Thickener	:3.0%
TOTAL PRINTING PASTE	: 100%

Add 1% Silkflex Fixer into the printing paste prior to printing. This pigment paste is suitable for manual and machine silkscreen prints with screen mesh sizes of 1000-1350. The prints are fully cured at 150oC for ~2 min. in the oven.

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 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**