

## **SILKFLEX PHOTOSOL TSP**

### **Properties**

Silkflex Photosol TSP is a photopolymer emulsion formulated for the textile industry. This red emulsion is one-pot system and can therefore be used straight from pot. Silkflex Photosol TSP is fast exposing and is resistant to all types of water based and plastisol inks. The print run resistance can be considerably increased by chemical hardening with Hardener.

### **Main Characteristics**

One pot/ Red color

Solid content (unsensitized) % = 35 %

### **Preparing the Screen**

- . Use Degreaser to clean the screen.

### **Coating**

#### **Manual**

- . Apply one or two coats of Silkflex Photosol TSP, wet on wet, to the print side of screen.
- . Apply one or two coats of this emulsion, wet on wet, to the squeegee side of screen.
- . If a higher build of Silkflex Photosol TSP is required extra coats should be applied, wet on wet to the squeegee side.

#### **Automatic**

- . When using an automatic coating machine, a simultaneous single coat on each side of the screen is recommended.
- . If higher builds are required, extra coats should be applied to the squeegee side of the screen.

### **Drying**

Put coated screen in hot air oven with squeegee side up. Do not exceed 40°C.

## Table of Exposure Guide

Using 62-34 W Screen Mesh with both sides coated twice with sensitized emulsion.		
Light Source	Distance	Length of Exposure Time (Seconds)
125W HPR Mercury Vapor Lamp	50 cm	21-42
50 Amp Open Carbon Arc	120 cm	50-75
1000W Metal Halide	120 cm	21-42
2000W Metal Halide	120 cm	14-28
3000W Metal Halide	120 cm	12-20
5000W Metal Halide	120 cm	8-20
6000W Metal Halide	120 cm	5-10

Developing

Place the screen in washout booth and gently spray both sides, increase the spray pressure slightly. Continue developing until or parts of the image appear clean and sharp.

Spotting

Check for pinholes or blemishes. Spot out with a suitable filler with emulsion dried and re-exposed.

Reclaiming the Screen

- Apply Screen remover thoroughly to both sides of the stencil.

Recommended inks

- Water based ink and plastisol ink.

### Caution

Special safelight is not essential, but yellow or weak illumination is desirable.

### Features

- One pot Photopolymer emulsion.
- Excellent latitude, resolution and definition.
- Fast exposure.
- Long print durability.
- For the textile industry.

### Standard Packing

5 Kg and 1 Kg

### Safety and Handling

- Free from any toxic, carcinogenic, mutagenic and reprotoxic chemicals.
- Does not have a flashpoint and is, therefore, exempt from the Highly Flammable Liquid Regulations.
- Should be stored away from children.
- Comprehensive information on *the Safety and Handling of Silkflex Photosol TSP* in Material Safety Data Sheet.

### Storage

- Silkflex Photosol TSP should be stored in a cool temperature as possible not below 0°C or over 35°C.
- Silkflex Photosol TSP can be stored for 12 months.
- Screen coated in advance must be stored at 20°C and in complete darkness.
- With longer storage of pre-coated screen, the emulsion can absorb moisture from the environment. It is therefore advisable to dry again prior to exposing.