



# MATSUI INTERNATIONAL CO. INC.

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## FOR TEXTILES

Components Include:  
**PHOTOPIA® AQ INK**  
**BINDER S**  
**FIXER F**

### A. MATERIAL DESCRIPTION

This system includes a water-base Photopia® paste and a thinning binder especially formulated for screen printing on textiles. This ink, once applied on textile, proves to have excellent adhesion, color quality and consistent color-changing performance.

### B. COLOR INFORMATION

There are three basic colors in Photopia®:

Colorless to Yellow  
Colorless to Purple  
Light Yellow to Blue

These colors can be mixed together to form other colors. You can also add a conventional non-color change pigment to obtain color to color change effects.

### C. USAGE INFORMATION

<b>MIX RATIO:</b>	20	parts Photopia® AQ Ink
	80	parts Binder S
	3	parts Fixer F
	<u>X</u>	<u>parts Pigment or "hot color**"</u>
	103	+ X totals parts weight

- Maximum pigment, hot color, contribution of the total ink weight should not be more than 2%.
- White pigments are not compatible with Photopia® AQ inks: usage of white pigment should be minimized if not eliminated.
- Ratios varying from suggested mixing ratios may still achieve the desired results.

- To thicken viscosity, add water-base or acrylic thickener.
- To reduce viscosity, up to 5% Printgen MG or water may be added.
- Filter the mixed ink with 120 mesh filter prior to its application.
- Mixed ink must be used within 24 hours.
- Avoid skin contact and do not inhale fixer.

#### **APPLICATION NOTES:**

- The screens should be biased with polyester monofilament. Emulsion should be water resistant or water oil resistant. Example emulsions include ULANO TZ and 925WR.
- Photopia® inks tend to settle; stir ink before each application.
- For good application, squeegees should be made of soft material.
- To wash the screens, use water. If screens are clogged, use a screen degreaser (e.g.: ULANO No. 3).
- Ink coverage area is approximately 5 – 15 square inches per gram of mixed ink; the ink covers 20,000 – 60,000 square inches per gallon. This is only an approximation, as exact coverage will vary depending on specific applications.
- Steam treatment destroys Photopia® AQ inks; Photopia® AQ inks are not compatible with dyes that require steam treatment.

#### **APPLICATION PROCEDURE:**

1. Use a 60 to 120 mesh screen to print ink.
2. Air dry until it feels dry when touched lightly. (Please note that this procedure is not always necessary).
3. Cure at 130° C for 3 minutes or 320° F for 1 ½ minutes. **(DO NOT EXCEED 140° C / 284° F)**

#### **PACKAGING**

Photopia® AQ Ink:	4kg. 20kg. packaging
Binder S:	20kg. 200kg. packaging
Fixer F:	4kg. 20kg. packaging