



MATSUI INTERNATIONAL CO. INC.

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Chromicolor® AQ Ink / Photopia® AQ Ink / Aroma AQ Ink

GENERAL INFORMATION

This product is a water based Chromic, Photopia, or Aroma ink / paste with clear dilutant and thinners, specifically formulated to be used with Silk Screen Clear for screen printing onto paper and synthetic films. A top coat or laminate is recommended to provide better adhesion and abrasion resistance. The final product has excellent ink adhesion, color, and color change retention.

COLOR INFORMATION

Chromicolor

The “cold” color is the one that changes – it actually disappears at a given temperature to reveal the “hot” color which is the base color (a conventional colorant). There are twelve standard “cold” colors and ten standard “hot” colors. The twelve standard Chromicolors offered are:

New Fast yellow	Pink	Brilliant Green
Gold Orange	Magenta	Fast Black
Vermilion	Fast Blue	Green
	Turquoise Blue	Brown

A PMS (Pantone) chart may be used to request custom “cold” colors and/or specific “hot” colors. The “hot color must be lighter color than the “cold” color. PMS colors are typically priced higher than standard colors.

Photopia

Photopia comes in three basic colors: Colorless to Purple, Colorless to Yellow and Off White to Blue. The colors “appear” in the sunlight or with UV light. You can achieve a color to color effect by mixing a conventional pigment into the AQ ink.

(Photopia changes at 340 – 370 nanometers)

Aroma

Strawberry	Lemon	Vanilla
Peppermint	Wildflowers	Rose
Lavender	Forest	Ambrosia

Fig	Tropical Paradise	Bouquet
Apple Orange		

NOTE: Do not top coat Aroma ink.

PRODUCT SPECIFICATIONS

Solids, Theoretical:	Chromicolor AQ Ink	33%
	Photopia AQ Ink	33%
	Aroma AQ	40 – 50%
	Silk Screen Clear	40% (+ 2%
Coverage, theoretical:	35g/meter + 2.5g,	
	Based on a 120 mesh screen	
Viscosity, as shipped:	Chromicolor AQ Ink	8,000-10,000cps @ 25 C
BH Model Viscometer	Photopia AQ Ink	8,000-10,000cps @ 25 C
	Aroma AQ -	1,000- 3,000cps @ 25 C
	Silk Screen Clear	40,000 @ 25 C
Specific Gravity:	Chromicolor AQ Ink –	1.05
	Photopia AQ Ink -	1.02
	Aroma AQ-	1.0 ± .1
	Silk Screen Clear	1.02
Flash Point:	Chromicolor AQ Ink	Non-combustible
	Photopia AQ Ink	Non-combustible
	Aroma AQ	Non-combustible
	Silk Screen Clear	N/A
Solvents:	Screen clean-up: water soap may be used). If screens are clogged propylene glycol can be used	
VISCOSITY ADJUSTMENT	Water	

APPLICATION PROCEDURE

Screen Plate: Polyester monofilament of 100-120 Mesh in bias cladding. Screen coating emulsion should be water resistant or water and oil resistant (example emulsions: ULANO TZ or 925WWR).

Squeegee: Should be printed with a soft squeegee.

Standard Recipe:

Chromicolor / Photopia / Aroma	
AQ Ink	25 – 50%
Silk Screen Clear	70 – 45%
<u>Xylol / Xylene</u>	5%
TOTAL	100 +/- x (weight)

Drying Method:

<u>Material</u>	<u>Air Dry</u>	<u>Cool Air Bryer</u>	<u>Dry at 40 C</u>
Paper	3 min.	1 min.	1 min.
PVC Sheet	15 min.	3 min.	2min.

1. Print color base ink using a 100 to 120 mesh screen. Printing layer should be thick with high viscosity ink. Apply 2 coats if necessary.
2. Allow to dry.
3. Apply top coat or laminate with a transparent film eg: polyester or polypropylene.

GENERAL NOTES

- Some variation of ratios may be expected to achieve the desired results.
 - Do not expose thinners to extreme temperatures or open flame.
 - White pigments are not compatible with Chromics or Photochromics and should be minimized or eminated.
 - Filter the mixed color base ink with a 120mesh filter prior to application.
 - Chromics tend to settle – stir ink before each application.
 - To wash the screens use water (soap my be used). If screens are clogged, xylent or butyl acetate may be used.
- .Color base ink coverage area is approximately 35g/meter + 2.5g, based on a 120 mesh screen and one stroke.
- Drying AQ Ink at temperatures of 80 C and above will cause the paper or PVC sheet to curl.
 - Pot life or mixed ink is 24 hours.

SHELF LIFE, STORAGE, SAFETY, HANDLING

Shelf life: Shelf life of unmixed ink is 6 months at a temperature of 30 C. Reducing the storage temperature to 10 C extends the shelf life to six months minimum.

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Storage

Protective clothing
should be worn at all times when using