



MATSUI INTERNATIONAL CO. INC.

1501 WEST 178th STREET, GARDENA, CALIFORNIA 90248
(310) 767-7812 • (800) 359-5679 • FAX (310) 767-7836

PRODUCT IDENTIFICATION Photopia® Epoxy Printing Ink

GENERAL INFORMATION

Photopia® Epoxy Printing Ink is a light sensitive colorant for screen printing onto chinaware, glass, metal or wood.

PRODUCT SPECIFICATIONS

Colors:

C/# WPL-404	Colorless to Purple
C/#WY-413	Colorless to Yellow
C/#LYB-421	Light yellow to Blue

Composition:

	Photopia® <u>Epoxy Printing Ink</u>	<u>Epoxy Fixer E</u>
Epoxy Resin	68.5 ± 2	--
Photopia®	30.0 ± 2	--
Silicone Defoaming Agent	1.5	--
Hardening Agent	--	95
Silica	--	5

Physical Properties:

	Photopia® <u>Epoxy Printing Ink</u>	<u>Epoxy Fixer E</u>
Nature	colored paste	lt yellow paste
Specific Gravity	1.08 ± 0.05	1.04 ± 0.05
Viscosity (at 25°C)	7,000 ± 1,000 cps	15,000 ± 5,000 cps
Flash Point	130°C (266°F)	210°C (410°F)

Solids, theoretical: Epoxy Printing Ink – 30%
 Epoxy Fixer E – 100%

Density, as shipped: Epoxy Printing Ink – 1.080 ± 50 g/liter
Epoxy Fixer E – 1.040 ± 50 g/liter

Optional primers & Pretreatments: Photopia® needs to be printed on top of a white or light colored substrate due to the lack of opacity.

Solvents Viscosity reduction – Xylol or Xylene
Clean up – Xylol or Xylene

Mix Ratio – Chromicolor® Ink

Photopia® Epoxy Printing Ink	100	parts by weight
Fixer E	34	parts by weight
Xylol	<u>0-5</u>	parts by weight

TOTAL 135-140

Recommended viscosity: 13,000 ± 3,000 cps (at 25°C)
Pot life of mixed ink: 1.5 hours

Application Procedure

Screen should be biased with polyester or nylon monofilament
Emulsion should be water resistant or water & oil resistant.
Use soft squeegee

Print with 60-100 mesh screen
(Coverage 1.0 g / 100 cm²)
Heat treatment at 110-120°C (230-248°F) for 30 minutes

SHELF LIFE, STORAGE, SAFETY HANDLING

Shelf life: Shelf life of unmixed ink is 3 months.

Storage: Store in a cool, dry place below 40°C.

Safety Handling: Do not inhale the paint fumes.
Avoid skin contact.
Protective clothing should be worn at all times when using this product. (safety glasses, gloves)
FOR SPECIFICS REFER TO THE MSDS

Packing Appearance: Photopia® Epoxy Printing Ink – 16 kg / iron drum
Epoxy Fixer E – 16 kg / iron drum

Lead time: Approximately 4 weeks