

Chroma/Tech® PL-2

Pure photopolymer direct emulsion designed exclusively for plastisol inks

MATERIALS

Required	Recommended
Exposure unit	Drying cabinet
Washout sink	Pressure washer
Clean work area	
Scoop coater	

CHEMICALS

Required	Recommended
Chroma/Clean™ mesh degreaser	Chroma/Haze™ haze remover
Chroma/Strip™ screen reclaimers	Chroma/Fill™ screen blockout

SAFETY AND HANDLING

Chroma/Tech® PL-2 emulsion should be handled like any other direct emulsion. This material is not hazardous when used within reasonable standards of industrial hygiene and safe working practices. Refer to MSDS.

SPECIFICATIONS

Appearance:	violet
Viscosity:	4000-5000 CPS
Solids:	approx 42% (no inert fillers)
Exposure:	very fast (see reverse)

Standard Sizes

Quart, gallon, 3.5 gallon, 50 gal. drum
(Available in dyed formulation only)

SPECIAL INSTRUCTIONS

Mild or screen safe chemicals are recommended to reduce potential for stencil lock-in.

STORAGE

For best results, PL-2 photopolymer direct emulsion should be stored in its original container at room temperature. This product should not be stored at temperatures above 95°F (35°C) or below 32°F (0°C). **Shelf life when stored at room temperature is 24 months.**

USER'S GUIDE

▼ Chroma/Tech® PL-2

- No sensitizer needed
- Fast exposing with excellent image quality
- Excellent coating on high mesh counts
- Excellent reclaimability
- Lower cost per screen



▼ Chroma/Tech PL-2 for use with plastisol inks is ideally suited for textile printers using direct emulsions who are seeking accuracy when doing fine detail, halftones or color process work.



Chromaline Screen Print Products

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Chroma/Tech® PL-2

Instructions

Work under yellow lights

DEGREASE

Using Chroma/Clean™ mesh degreaser, work up a lather on both sides of mesh. Flood screen and frame thoroughly with garden type hose, then dry.



COAT

Slowly apply first coat to print side. Then coat squeegee side with one coat. If a thicker stencil is desired, additional coats may be applied to print side. Note that one coat on each side with PL-2 is similar to four coats wet on wet with typical diazo based emulsions. Dry thoroughly between coats.



Note:

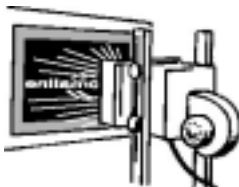
- PL-2 is presensitized and requires no mixing.
- Keep pail covered when not in use.
- Return unused emulsion from scoop coater to pail as soon as possible. Emulsion dries quickly and will rapidly "skin over."

DRY

Thoroughly dry screen in horizontal position, print side down, using a **totally dark**, clean drying cabinet. Temperature should not exceed 110°F (43°C).

EXPOSE

Place emulsion side of photopositive in contact with print side of screen. Exposure times for PL-2 are very short and accurate exposure is important for optimal results. See exposure guidelines at right.



DEVELOP

Gently spray both sides of screen with lukewarm water, wait 30 seconds then gently wash print side of the screen until image is fully open. Rinse both sides thoroughly. Dry screen completely and you are ready to print.



RECLAIM

Apply Chroma/Strip™ screen reclaimer to both sides of screen. Scrub area to be reclaimed with a stiff nylon brush to ensure entire surface is wet and let it work a few moments until stencil begins to dissolve. Remove stencil residue with pressure washer, then rinse with garden type hose, thoroughly flooding screen and frame.



FOR BEST RESULTS

Chroma/Tech® PL-2 should be stirred occasionally to reduce settling.

EXPOSURE GUIDELINES

Note: Exposure times are suggested only as a guide. Use an exposure calculator or the step exposure method to determine optimal exposure times. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions. Exposure times below were set for 5KW unit at 40" from frame.

230 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time	mj/cm ²
1X1	Round	20 sec.	107 mj/cm ²
1X2	Round	25 sec.	135 mj/cm ²

110 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time	mj/cm ²
1X1	Round	30 sec.	165 mj/cm ²
1X2	Round	40 sec.	224 mj/cm ²

FOR TECHNICAL SERVICE
Call Toll Free 1-800-328-4261