

C H R O M A / T E C H[®]

PHAT[®] film

Presensitized film for applications requiring heavy ink deposits.

MATERIALS

Required

Exposure unit	Fan or drying cabinet
Washout sink	Pressure washer
Clean work area	40-50 durometer soft
Scoop coater	rounded squeegee
Laminating Emulsion	Build-up board

CHEMICALS

Required

Chroma/Clean [™]
mesh degreaser
Chroma/Strip [™]
screen reclaimer

Recommended

Chroma/Haze [™]
haze remover
Chroma/Fill [™]
screen blackout

SAFETY AND HANDLING

Avoid contact with skin and eyes. Refer to MSDS for further information.

STORAGE

PHAT photopolymer films have a shelf life of 24 months at room temperature (60 to 80°F). To maximize shelf life, unexposed film should be stored in a closed container in a cool, dry area.

Coated, unexposed screens can be stored as long as one month in a clean, cool, dry and completely dark area.

This product must be used with a laminating emulsion. For best results, use a Chromaline emulsion such as UDC-ACE, Chroma/Tech PL-2, or UDC-HV. Consult emulsion user's guide for instructions and product specifications.

MICRON THICKNESSES AVAILABLE:

PHAT films are available in 100, 150, 200, 250, 300, 350, 400 and 700 micron thicknesses. Consult your dealer for sheet and roll sizes available.

Chroma/Tech[®] PHAT Film

Chromaline's **PHAT** film is the ideal choice for printers seeking heavy ink deposit in a variety of applications. **PHAT** film works well for textile printers working with high density inks. Electronics and industrial printers will appreciate **PHAT** film's ability to accomplish extreme stencil build-up. In addition, **PHAT** film offers:

- Fast exposures with excellent image quality
- Excellent build-up
- Fast drying - with no "orange peel" effect
- Transparent for easy registration
- Extremely fast screen turn-around



Chroma/Tech[®] PHAT film incorporates Chromaline's patented A.S.M.[®] (U.S. Patent 5,506,089, other patents pending) imaging technology for easier handling and better line edge definition. **PHAT** film is for use with plastisol, UV or solvent based inks.

USER'S GUIDE



Chromaline Screen Print Products

4832 Grand Ave. • Duluth, Minnesota 55807 • Tel: 218-628-2217 • FAX: 218.628.3245
Web Site: www.chromaline.com • E-mail: sales@chromaline.com

PHAT^{film}

Instructions

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.



▼
Work
under
yellow
lights



PREPARE LAMINATING EMULSION

Stir or mix laminating emulsion according to instructions on emulsion user guide. Let emulsion stand at least two hours before using if diazo based.

PREPARE FILM

Pre-cut the film to size, then remove the protective cover sheet. PHAT film has a protective cover sheet to help prevent pinholes by keeping dust, fingerprints and other debris from marring the film surface. **TIP: The protective cover sheet can be easily removed from the film by using tape. Apply a piece of tape to the side that has a duller appearance. Then, gently pull the sheet from the film's emulsion side.**



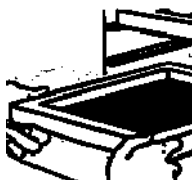
COAT

Using the Direct/Indirect method, mount the film using a build-up board. Pour a bead of emulsion at one end of the screen. Using a round edge medium durometer squeegee, coat emulsion across the screen. Repeat coating **3** times. **Optional:** Use a scoop coater after the stencil is dry if additional emulsion is needed for adhering the film.



DRY

Thoroughly dry the screen using a dark, clean drying cabinet, then remove the carrier. You will know the film is dry when the carrier peels off easily. If the carrier makes any noise when being pulled off, or resists being pulled off, additional drying time is needed. Thoroughly dry the screen. Temperature should not exceed 104°F (40°C). Drying time will be approx. 1 1/2 hours.



EXPOSE

Place emulsion side of photopositive in contact with print side of screen. Refer to the chart below for suggested exposure times.



DEVELOP

Wet both sides of screen. Begin development with **high pressure washer** spray on print side, until image is fully open. Typical washout can range from 2-4 minutes. **NOTE:** Thicker films and certain artwork may require additional washout time.



DRY

Once development is completed, place the stencil into the drying cabinet for approximately 15 minutes or until the stencil turns from milky white to clear. **Stencil must be completely dry prior to printing.**

RECLAIM

Reclaim by applying Chroma/Strip™ screen reclaimer to the squeegee side of screen. With a high pressure washer, spray the squeegee side of stencil. Discard any solid waste in the garbage.

EXPOSURE GUIDELINES

Note: Exposure times are suggested only as a guide. Perform a step test to determine proper exposure times. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions.

SUGGESTED MINIMUM Exposure Guidelines

Micron	Time	mJ/cm ²
100	50 sec.	283
150	100 sec.	617
200	150 sec.	921
250	200 sec.	1224
300	230 sec.	1404
350	270 sec.	1460
400	300 sec.	2000
700	550 sec.	2700

Exposure times were set for a 5KW unit at 40" (1 meter) from the frame.

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