chromaline SCREEN PRINT PRODUCTS

USER'S GUIDE

SUPER PHAT

Presensitized film for applications requiring heavy ink deposits.

SUPER PHAT film works well for textile printers working with high-density and special-effects inks. Electronics and industrial printers will appreciate SUPER PHAT film's ability to accomplish extreme stencil build-up.

- Fast exposures with excellent image quality
- Ease of washout
- Excellent buildup
- Fast drying with no "orange peel" effect
- Transparent for easy registration
- Extremely fast screen turnaround
- Increased humidity resistance
- For use with plastisol, UV or solvent based inks

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

Extreme Stencil Buildup

Super PHAT film's ability to accomplish extreme stencil buildup benefits electronics and industrial printers.



CHEMICALS

REQUIRED

Chroma/Wet™ *iSC*
degreaser / adhesion promoter

Chroma/Strip™ *iSC*
ready-to-use stencil remover

RECOMMENDED

Chroma/Fill™ Red *iSC*
permanent screen blockout

MATERIALS

REQUIRED

Exposure unit
Clean work area
Washout sink
Laminating emulsion

RECOMMENDED

Drying cabinet
Pressure washer (min. 1000 psi)
Printing squeegee
Build-up board
Exposure calculator

STORAGE

SUPER PHAT film should be stored in its original container between 32°F (0°C) and 80°F (27°C). Coated, unexposed screens can be stored up to one month in a clean, dry and completely dark area. Cut sheets must be stored flat to avoid wrinkling.

SAFETY AND HANDLING

This material is not hazardous when used within reasonable standards of industrial hygiene and safe working practices. Refer to the SDS for further information.

SUPER PHAT



For additional processing methods and information,

WATCH VIDEO

SCAN ME

INSTRUCTIONS

DEGREASE



Work up a lather on both sides of mesh to degrease. Be sure to use only a high-quality mesh degreaser, such as Chroma/Wet iSC, designed specifically for this purpose. Rinse thoroughly.

PREPARE LAMINATING EMULSION

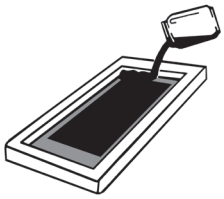
Stir or mix laminating emulsion according to instructions in the emulsion user's guide. If using diazo-based emulsion, let it stand at least two hours before using.

PREPARE FILM



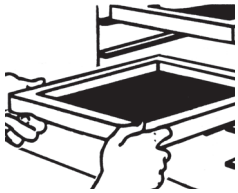
Cut the SUPER PHAT film to size, then remove the protective cover sheet. The purpose of the cover sheet is to help intercept dust, fingerprints and other debris that could potentially cause pinholes. *TIP:* The protective cover sheet can be easily removed from the film by using tape. Simply apply a piece of tape to the corner of 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 the emulsion across the screen. Repeat coating up to three times.

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. Temperature should not exceed 110°F (43°C). Drying time will be approx. 1½ hours. Thicker SUPER PHAT will take longer to dry.

EXPOSE



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

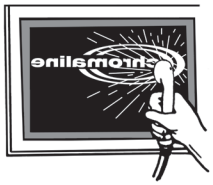
EXPOSURE GUIDELINES

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 the equipment used, bulb age, and other shop conditions.

FILM THICKNESS	TIME
100 µm	50 sec.
150 µm	100 sec.
200 µm	150 sec.
250 µm	200 sec.
300 µm	230 sec.
400 µm	300 sec.
700 µm	550 sec.

Exposure times were set for a 5kW unit at 40" (1 meter) from the frame using yellow mesh.

DEVELOP



Wet both sides of the screen. Begin development using a high pressure washer spray on the print side, until the 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 iSC screen reclaimer to the squeegee side of the screen. Scrub area to be reclaimed with a stiff nylon brush to ensure the entire surface is wet and let it work for a few moments until the stencil begins to dissolve. Using a high pressure washer, spray the squeegee side of the stencil. Discard any solid waste in the garbage.

chromaline SCREEN PRINT PRODUCTS | PRINT WITH CONFIDENCE

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⚠ **WARNING:** This product can expose you to chemicals including Phenoxymethyl oxirane which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov

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