

Pro/Cap[®]

Pre-sensitized diazo capillary film for solvent based and plastisol inks.

USER'S GUIDE

MATERIALS

Required

Exposure unit
Washout sink
Clean work area

Recommended

Drying cabinet
Pressure washer
Chromaline Exposure Calculator

CHEMICALS

Required

Chroma/Clean[™]
mesh degreaser

Chroma/Wet[™]
wetting agent

Chroma/Strip[™]
screen reclaimer

Recommended

Chroma/Brade[™]
abrader/degreaser

Chroma/Set[™]
stencil hardener

Chroma/Haze[™]
haze remover

SAFETY AND HANDLING

There are no hazards associated with this product when used within reasonable standards of industrial hygiene and safe working practices. Refer to MSDS for further information.

STORAGE

Pre-Sensitized Pro/Cap films are light sensitive and should be opened only under yellow or subdued lighting. Chromaline recommends that unexposed film be stored in its 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.

For shelf life of up to one year, store film between 65°F and 75°F. Film degrades quickly when stored above 110°F. Store film in sealed tube when not in use.



Size/Thickness	Mesh Count	Application
Pro/Cap15 (0.6mil/15mm)	390 & finer	Primarily UV printing and fine halftones
Pro/Cap18 (0.7mil/18mm)	390 & finer	Standard UV printing, halftones and delicate line work.
Pro/Cap25 (1 mil/25mm)	305 & finer	Large dot halftones, fine graphics / decals, heavier deposit UV printing.
Pro/Cap38 (1.5mil/38mm)	200-305	General graphics printing, soft hand textile and halftones in textiles.
Pro/Cap50 (2mil/50mm)	200 & coarser	General textile printing, solder mask for circuit boards, specialty graphics.



Pro/Cap[®] capillary films are recommended for screen makers demanding high edge definition and reliable durability for quality imaging in even the longest print runs. Available in both rolls and custom cut sheets.

Pro/Cap[®] pre-sensitized diazo capillary film from Chromaline is designed for compatibility with plastisol and solvent based inks. Printers will appreciate its "work-horse" durability for demanding print runs, and its "user friendly" convenience.

In addition to the normal benefits of a capillary film, Pro/Cap[®] provides these extra advantages:

- Superior film penetration and adhesion
- Economically Priced



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Pro/Cap[®]

The Roll-down Method

of Applying Pro/Cap[®] Capillary Film

Work under yellow lights



DEGREASE

Using Chroma/Clean[™] mesh degreaser, work up a lather on both sides of mesh. (Be sure to use only a high-quality mesh degreaser, such as Chroma/Clean[™], designed specifically for this purpose.) Rinse thoroughly.

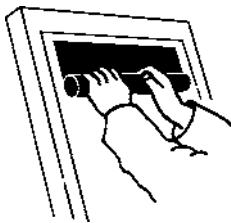


WET

Capillary films require a thoroughly wet screen. With the screen in a vertical position, paint Chroma/Wet[™] wetting agent onto the print side of the screen. (Use a separate brush just for this step.) Wait a moment, then flood entire screen with a garden type hose.

ROLL-DOWN

Cut the film to size and roll it up, emulsion side out. Reflood the screen with water and attach the roll of film to the top of the print side of the screen. With slight pressure roll the film down until the entire piece is in contact with the mesh. Use a window squeegee to remove excess water from **squeegee side only**.



DRY

Thoroughly dry the screen in a dark area (avoid high temperatures of 110°F and up). Remove the carrier just before exposing. If the carrier resists being pulled off, additional drying time is needed.



EXPOSE

With polyester carrier peeled off, place the emulsion side of the positive against the print side of the screen in an exposure frame. Run an exposure test to determine your correct exposure. [See guide at right.]



DEVELOP

Gently spray both sides of the screen with tepid water. Wait approximately 30 to 60 seconds, then wash the print side of the screen until the image is fully open. Rinse both sides thoroughly. Dry the screen completely, and you are ready to print.



RECLAIM

Apply Chroma/Strip[™] screen reclaimer to both sides of screen. If using squirt applicator, scrub with a stiff nylon brush to ensure entire surface is wet and let it work for 30 to 60 seconds. Pressure wash out.



EXPOSURE GUIDELINES

Exposure times were set for a 5KW Metal Halide unit at 40" from the frame. All screen mesh is 230T amber. Chromaline recommends use of an exposure calculator for correct times for your equipment. These figures are only a guide.

Film Thickness	Time	mj/cm ²
Pro/Cap 15	32—42 sec.	165-224
Pro/Cap 18	36—48 sec.	195-223
Pro/Cap 25	45—60 sec.	253-379
Pro/Cap 38	65—85 sec.	404-520
Pro/Cap 50	90—120 sec.	556-749

ADDITIONAL TIPS

SCREEN PREPARATION *[new mesh only]*

Scrub Chroma/Brade[™] mesh abrader/degreaser thoroughly into entire screen area on print side of new mesh. This mesh pre-treatment will degrease the mesh and roughen it slightly to improve capillary film adhesion.

FOR INCREASED RESISTANCE TO HUMIDITY

Chroma/Set[™] stencil hardener keeps presses running during periods of high temperature and high humidity. This easy to apply liquid produces dramatic results.