Pro/Cap® TD

Humidity resistant pre-sensitized diazo capillary film for solvent based and plastisol inks.

Pro/Cap TD pre-sensitized diazo capillary film from Chromaline is designed for compatibility with plastisol and solvent based inks. Printers will appreciate its durability for demanding print runs and its ease of use. Pro/Cap TD capillary film is recommended for screen makers demanding high edge definition and reliable durability for quality imaging during long print runs. Available in both rolls and custom cut sheets. In addition to the normal benefits of capillary film, Pro/Cap TD provides these extra advantages:

- **For use with plastisol and solvent-based inks**
- **Low Rz**
- **Economically Priced**
- **Humidity Resistance**

Easy to Use and Durable

Pro/Cap TD Film combines ease of use with stencil durability.

SIZE/THICKNESS	MESH COUNT	APPLICATION
Pro/Cap TD 15	380 & finer, 150cm	Standard UV printing and fine halftones.
Pro/Cap TD 18	380 & finer, 150cm	Standard UV printing, halftones and delicate line work.
Pro/Cap TD 25	305 & finer, 120cm	Large-dot halftones, fine graphics/decals, heavier deposit UV printing.
Pro/Cap TD 30	305 & finer, 120cm	Large-dot halftones, fine graphics/decals, heavier deposit UV printing.
Pro/Cap TD 38	200 - 305, 78-120 cm	General graphics printing, soft hand textile and halftones in textiles.
Pro/Cap TD 50	200 & coarser, 78cm	General textile printing, solder mask for circuit boards, specialty graphics.



CHEMICALS

REQUIRED

Chroma/Wet™ *iSC*
degreaser / adhesion promoter

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

RECOMMENDED

Chroma/Fill™ Red *iSC*
permanent screen blockout

Chroma/Last *iSC*
stencil hardener

MATERIALS

REQUIRED

Exposure unit
Clean work area
Washout sink

RECOMMENDED

Drying cabinet
Pressure washer
Exposure calculator

SAFETY AND HANDLING

Pro/Cap TD Film should be handled like any other capillary film. This material is not hazardous when used within reasonable standards of industrial hygiene and safe working practices. Refer to the SDS for further information.

STORAGE

Pro/Cap TD Film should be stored at room temperature and should not be stored at temperatures above 75°F (24°C) or below 32°F (0°C). Film degrades quickly if stored above 110°F (43°C).

Presensitized Pro/Cap TD films are light sensitive. Open under yellow or subdued lighting. Storage recommendation: Unexposed film should be sealed in its original container.

Coated, unexposed screens can be stored up to one month in a clean, dry and completely dark area.

Pro/Cap® TD



INSTRUCTIONS

DEGREASE

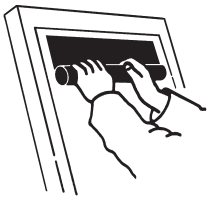


Work up a lather on both sides of mesh to degrease. Be sure to use only a high-quality mesh degreaser, such as Chroma/Wet iSC, designed specifically for this purpose. Rinse thoroughly.

WET

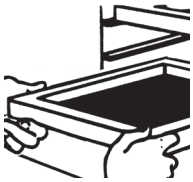
Capillary films require a thoroughly wet screen. With the screen in a vertical position, paint Chroma/Wet iSC wetting agent onto the print side of the screen. (Use a separate brush just for this step.) Wait a moment, then flood the entire screen with water using a garden hose.

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. Using light pressure, roll the film down until the entire piece is in contact with the mesh. Use a window squeegee to remove excess water from the squeegee side only.

DRY



Thoroughly dry the screen in a dark area, 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. Do not exceed high temperatures of 110°F (43°C).

EXPOSE



With the 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 the guide at the right.]

DEVELOP



Gently spray both sides of the screen with lukewarm 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 iSC screen reclaimer to both sides of the screen. Scrub with a stiff nylon brush to ensure entire surface is wet and let it work for 30 to 60 seconds. Rinse thoroughly with a pressure washer.

EXPOSURE GUIDELINES

Exposure times were determined by using the Chromaline Exposure Calculator and the Chromaline UV Minder. Exposure times were set for a 5kW unit at 40" from the frame. Yellow mesh was used for all exposure tests. Screens were coated wet on wet, once on print side and twice on squeegee side. Chromaline recommends use of an exposure calculator for correct times for your equipment. These figures are only a guide.

Thickness	Mesh	Time / mj/cm^2
15 micron	380	40-45 sec. / 225-255 mJ/cm^2
18 micron	380	40-50 sec. / 225-285 mJ/cm^2
25 micron	305	50-80 sec. / 285-495 mJ/cm^2
30 micron	305	60-100 sec. / 375-615 mJ/cm^2
38 micron	230	75-120 sec. / 465-750 mJ/cm^2
50 micron	155	140-200 sec. / 860-1225 mJ/cm^2

* Exposure times were determined using the CHROMALINE EXPOSURE CALCULATOR.

AVOID FAILURE: Dual cure films have a wide exposure latitude. Underexposed stencils often appear acceptable, but premature breakdown can occur on the press. When determining exposure time, always overexpose your test stencil, then reduce exposure time until acceptable image quality is achieved. This assures good durability.

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