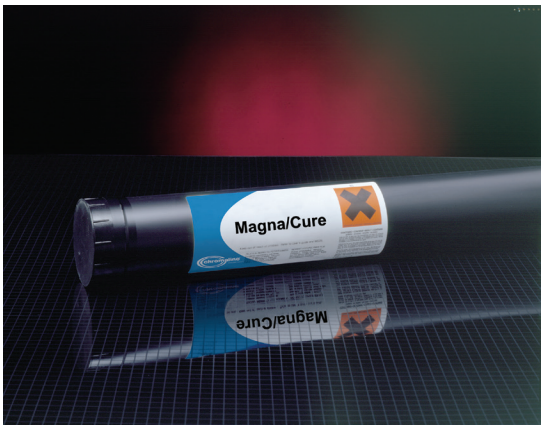
MAGNA/CURE®

Presensitized dual-cure capillary film.

Magna/Cure dual-cure capillary film from Chromaline has set a new standard in printing. Printers will appreciate its print quality and durability.

In addition to the normal benefits of a capillary film Magna/Cure provides these extra advantages:

- Exceptional print quality & durability
- Excellent solvent and co-solvent based ink resistance
- Easy washout
- Wide exposure latitude



FILM	MESH COUNT	APPLICATION
Magna/Cure 18 (0.7 mil)	390 & finer (150 cm & finer)	Standard UV printing, halftones and delicate line work
Magna/Cure 25 (1 mil)	305 & finer (120 cm & finer)	Large dot halftones, fine graphics/decals, heavier deposit UV printing
Magna/Cure 30 (1.2 mil)	230 - 305 (90 - 120 cm)	Large dot halftones, fine graphics/decals, heavier deposit UV printing
Magna/Cure 38 (1.5 mil)	200 - 305 (81 - 120 cm)	General graphics printing, soft hand textile and halftones in textiles.
Magna/Cure 50 (2 mil)	200 & coarser (81 cm & coarser)	General textile printing, solder mask for circuit boards, specialty graphics
Magna/Cure 70 (2.8 mil)	110 & coarser (43 cm & coarser)	Puff ink in textiles, thick deposit specialty applications

MATERIALS

REQUIRED

Exposure unit
Washout sink
Clean work area

RECOMMENDED

Drying cabinet
Pressure washer
Exposure Calculator

CHEMICALS

REQUIRED

Chroma/Clean™
mesh degreaser

Chroma/Strip™
screen reclaimer

RECOMMENDED

Chroma/Set™
stencil hardener

Chroma/Fill™
screen blockout

Chroma/Wet™
wetting agent

SAFETY AND HANDLING

Read all labels and refer to SDS for appropriate safety procedures.

STORAGE

Magna/Cure Films should be stored at room temperature and should not be stored at temperatures above 80°F (27°C) or below 32°F (0°C).

Pre-Sensitized Magna/Cure films are light sensitive. Open under yellow or subdued lighting. Storage recommendation: Unexposed film should be sealed in original container.

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

MAGNA/CURE®

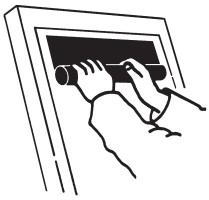
INSTRUCTIONS

THE ROLL-DOWN METHOD
of applying **Magna/Cure** Capillary Film

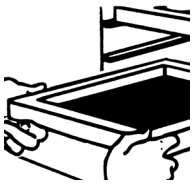
DEGREASE
Work up a lather on both sides of mesh to degrease. Be sure to use only a high-quality mesh degreaser, such as Chroma/Clean designed specifically for this purpose. Rinse thoroughly.

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.

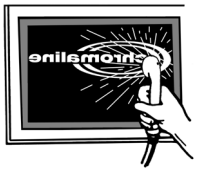


DRY
Thoroughly dry the screen in a dark area, then remove the carrier. You will know the film is dry when the carrier peels off easily. If the carrier makes any noise when being pulled off, or resists being pulled off, additional drying time is needed. Do not exceed high temperatures of 110°F (43°C).



EXPOSE
With 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 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 screen reclaimer to both sides of screen. 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 GUIDELINE
Exposure times were set for a 5KW Metal Halide unit at 40" from the frame. All screen mesh is 230 (90 cm) yellow. Chromaline recommends use of an exposure calculator for correct times for your equipment. These figures are only a guide.

Film Thickness	Time
Magna/Cure 13	25—40 sec.
Magna/Cure 18	30—48 sec.
Magna/Cure 25	40—60 sec.
Magna/Cure 38	60—85 sec.
Magna/Cure 50	110—120 sec.
Magna/Cure 70	140—170 sec.

* 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 speed, always overexpose your test stencil, then reduce exposure time until acceptable image quality is achieved. This assures good durability.

For Technical Service
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