

CTR™

Pure photopolymer direct emulsion

CTR is ideally suited for textile printers using direct emulsions who are seeking faster screen turnaround without sacrificing imaging quality.

CTR

- No mixing
- Very fast exposing, fast drying
- Superior mesh bridging
- Excellent reclaimability
- High solids - lower cost per screen
- For Plastisol Inks



MATERIALS REQUIRED

Exposure unit
Washout sink
Clean work area
Scoop coater

RECOMMENDED

Drying cabinet
Pressure washer

CHEMICALS REQUIRED

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

RECOMMENDED

Chroma/Fill™ screen blackout

SAFETY AND HANDLING

CTR emulsion should be handled like any other direct emulsion. This material is not hazardous when used within reasonable standards of industrial hygiene and safe working practices. Refer to SDS.

STANDARD SIZES

Gallon, 3.5 gallon, 50 gal. drum
(available in dyed formulation only)

SPECIFICATIONS

Appearance: Red
Exposure: Very Fast (see reverse)
Solids: Approx 50% (no inert filters)
Viscosity: 5000 CPS
Other: Available upon request

STORAGE

CTR should be stored at room temperature and should not be stored at temperatures above 80°F (27°C) or below 32°F (0°C). For best results, CTR photopolymer direct emulsion should be stored in its original container.

Protect from freezing. CTR is not freeze/thaw stable.



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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.



COAT

Slowly apply first coat to print side. Then coat squeegee side with one coat. If a thicker stencil is desired, additional coats may be applied to the squeegee side while the emulsion is wet. Note that one coat on each side with CTR is similar to four coats wet on wet with typical diazo based emulsions.

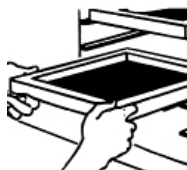
Note:

- CTR is presensitized. Stir before use.
- Return unused emulsion from scoop coater to pail as soon as possible. Emulsion dries quickly and will rapidly "skin over."
- Keep pail covered when not in use.



DRY

Dry screen thoroughly in horizontal position with print side down, using a completely clean and dark drying cabinet. Temperature should not exceed 110°F (43°C).



EXPOSE

Place emulsion side of photopositive in contact with print side of screen. Exposure times for CTR are very short and accurate exposure is important for optimal results. See exposure guidelines at right.



DEVELOP

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



RECLAIM

Apply Chroma/Strip™ screen reclaimer to both sides of screen. To reclaim properly, scrub area thoroughly with a stiff nylon brush and let chemical work a few moments until stencil begins to dissolve. Remove stencil residue with pressure washer, then rinse with garden hose to completely flood the screen and frame.



EXPOSURE GUIDELINES

Note: Exposure times are suggested only as a guide. Use the 10-Step Exposure Guide method to determine optimal exposure times. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions. Exposure times below were set for 5KW unit at 40" from frame.

110 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	30 sec.
1X2	Round	40 sec.
1X3	Round	50 sec.

230 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	20 sec.
1X2	Round	25 sec.
1X3	Round	30 sec.

390 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	15 sec.
1X2	Round	20 sec.
1X3	Round	25 sec.

* Exposure times were determined using the CHROMALINE EXPOSURE CALCULATOR.

For Technical Service
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